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ANNUAL

ADMINISTRATION REPORTS

OF

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,

FOR THE

OFFICIAL YEAR

1886-87.

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PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1886-87.

By Lieut.-Colonel I. CAMPBELL WALKER, Staff Corps,

CONSERVATOR OF FORESTS.

CHAPTER I.

Introductory Remarks.

The Conservator visited all the districts in his Circle during the year, the inspection tours having commenced about the middle of July and continued until the close of the year.

He was absent for one month in October on special duty at Dehra Dún, during which period Mr. J. W. Cherry officiated as Conservator of Forests.

The most important inspections were :—

Chingleput.—The Kámbákam and three other reserved forests in the Tiruvallúr taluk.

North Arcot.—The Gudiyátam and Vellore forests, Napier and Mámandúr reserves in the Chandragiri range, and the Kangundi Zemindari forests, besides Government topes and casuarina plantations.

Salem.—The Kurumbapatti and Settichávadi reserved lands, the Shevaroy Hill reserves including the Morúr block, the reserves and Mitta forests on the slopes of the Javádis and Yelagiri hills, and the reserves in the neighbourhood of Burghúr.

North Coimbatore.—Satiyamangalam and Kollegál hill forests under selection for settlement (by Mr. Cherry).

South Coimbatore.—Bhaváni valley, Bolampatti and Sholakarai reserved forests.

Malabar.—The Nilambúr plantations, Tiruvazhamkunnu and Wálayár.

Inspection memoranda were sent to Collectors and the Board of Revenue.

2. The Conservator inspected all the District Forest offices during the year and found them generally in good order, except those of North Arcot, Madura, Tinnevelly and South Coimbatore. The detailed results of such inspections were duly communicated to the Collector and the Examiner of Forest Accounts.

Although two years have now elapsed since the introduction of the Forest Code, its provisions are not thoroughly understood and acted up to in several districts. The fault is in a great measure attributable to the inefficiency of the District office staff. A better class of men on increased rates of pay is required.

The Conservator regrets also to observe that there is still much room for improvement as regards the frequency and thoroughness of inspection of Range offices and depôts by District Forest-officers as prescribed by paragraphs 184 and 185 of the Departmental Code to which the attention of Collectors and District Forest-officers has been solicited.

3. The time spent in camp by the District Forest-officers during the year is reported as follows :—

District.	Name of officer in charge.	Number of days spent in camp.
Chingleput	T. Muhammad Ali Sahib Bahadur	212
North Arcot	Mr. T. Sheffield	151
South Arcot	„ H. L. Wooldridge	227
Salem	„ J. W. Cherry (274 days)	160
Trichinopoly	„ A. W. C Stanbrough	210
North Coimbatore ..	„ W. C. Hayne	173
South do. ...	„ H. J. A. Porter	167
Madura	„ H. A. Gass (134 days)	* 73
	„ A. W. C. Stanbrough (118 days) ...	78
	„ A. W. Peet (113 days)	55
Tinnevelly	„ C. E. Brasier (274 days)	177
	„ C. Eber Hardie (91 days)	63
Malabar. Wynaad and Pálghat ...	„ R. W. Morgan (311 days)	204
Malabar. Nilambúr ...	„ G. Hadfield	94
South Canara	„ T. P. Peake	151

* At Kodaikánal.

All the officers travelled sufficiently, the average stay in camp being about six months.

CHAPTER II.

Areas and Boundaries.

4. *Areas.*—The following table shows the changes in the areas of forest lands during the year 1886-87 :—

Description or class of forest.	Area on 1st April 1886.		Added during the year.	Excluded during the year.	Area on 31st March 1887.	
	Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.
Reserved forests (Form 59-A.) ..	976,715·48	1,526·12	200,284·46	375	1,176,624·94	1,838·45
Reserved lands (Form 59-C.) ..	2,241,880·18	3,502·93	305,079·86	207,817·97	2,339,142·07	3,654·91
Forests regarded as reserves prior to Act V of 1882 (Form 59-B.).	196,596·71	307·18	432	17,652	179,376·71	280·27
Other forests (Form 59-D.) ..	720,477·50	1,125·73	13,500	30,579	703,398·50	1,099 08
Total ..	4,135,669·87	6,461·96	519,296·32	256,423·97	4,398,542·22	6,872·71

5. *Reserved Forests.*—Of the area excluded, 16 acres are in the Kámbákam reserved forest of the Chingleput district, being the extent of land claimed by the Zemindar of Kálahasti and demarcated out in laying down the western boundary in accordance with Revenue Board's Proceedings, dated 9th April 1886, Forest No. 183. The remaining 359 acres were found (by actual survey) to be deficient in the Punjantángi and Minnakaradu reserved forests in the Trichinopoly district.

Of the area added during the year, 38·46 acres are in North Arcot, being a portion of the Kílminnel plantation (reserved forest), once washed away by floods but since reclaimed from the river, and the remaining area represents reserved lands duly settled and constituted reserved forests during the year in the following districts :—

	Acres.
Chingleput	23,383
Salem	110,056
Trichinopoly	17,137
North Coimbatore	48,000
Madura	1,670
Total ...	200,246

The net addition to reserved forests was 199,909·46 acres, or 312·36 square miles.

The final constitution of reserved forests has not progressed so rapidly as could be wished owing to appeals against Forest Settlement-officers' decisions and delays in publication of notifications under section 16 of the Act, but it may be noted that three blocks of about 24 square miles in Chingleput, four blocks of 50 square miles in Salem, and two blocks of 40 square miles in South Canara, or 114 square miles in all, were notified before the close of the year under report, but as the date from which the reservation takes effect falls within the current year, they are not included in the returns for 1886-87.

6. The areas proposed for reservation under section 4 of the Forest Act, which had not been constituted reserved forest up to 31st March 1887, were as follows :—

District.	Of those notified in 1883-84.		Of those notified in 1884-85.		Of those notified in 1885-86.		Notified in 1886-87.		Total.			Remarks.
	Number of blocks.	Acres.	Number of blocks.	Acres.	Number of blocks.	Acres.	Number of blocks.	Acres.	Number of blocks.	Acres.	Equivalent in square miles.	
Chingleput ..	..	..	1	5,649	2	9,608	6	7,168	9	22,425	35·04	The areas of blocks in some districts have been revised in accordance with the latest estimates from District Forest-officers.
North Arcot..	3	47,121	..	..	..	..	1	64,000	4	111,121	173·63	
South Arcot..	..	..	..	..	32	119,996	19	18,575	51	138,571	216 52	
Salem ..	..	..	40	233,588	9	93,015	2	14,500	51	341,103	532·97	
Trichinopoly.	..	..	..	..	10	6,707	17	82,726	27	89,433	139·74	
Tanjore ..	..	..	..	..	..	..	2	4,200	2	4,200	6·56	
Madura ..	..	..	..	..	..	..	8	60,800	8	60,800	95 00	
Tinnevelly ..	..	..	..	..	5	172,606	..	..	5	172,606	269·70	
Malabar—(Wynaad and Pálghat) ..	1	15,203	3	65,653	3	25,862	1	39	8	106,757	166·80	
South Canara.	..	..	..	..	5	48,055	9	21,170	14	69,225	108·16	
Total ..	4	62,324	44	304,890	66	475,849	65	273,178	179	1,116,241	1,744·12	

Of the apparently large extent of 1,744·12 square miles notified under section 4, which had not been constituted reserved forests up to 31st March 1887, the settlement of the following areas was practically complete at close of the year :—

District.	Number of blocks.	Area in square miles.	Remarks.
Chingleput	4	28	Three blocks of 24 square miles notified under section 16 in 1886-87 with effect from 1st June 1887. In one block of 4 square miles the appeal time had not expired. Hence the final notification could not be submitted.
North Arcot ..	4	173·63	Final notifications were not submitted owing to non-expiry of appeal time.
South Arcot ..	20	90·65	Do. do. do. do.
Salem	25	234·00	Four blocks of 50 square miles notified under section 16, but date of reservation falls in the current year, and for the remainder, Forest Settlement-officer's final reports were with the Collector.
Trichinopoly ..	10	9·07	Forest Settlement-officer's final reports were ready for submission to Board and Government.
Madura	1	9·00	Do. do. do. do.
Tinnevelly	3	132 46	Do. do. do. do.
	2	137·24	Appeals to the District Court remained undisposed of.
Malabar (Wynaad) ..	7	143·05	Do. do. do.
Do. (Pálghat) ..	1	23·75	Final notification was before Government and issued just after the close of the official year.
South Canara ..	2	35·00	Non-expiry of appeal time.
Total ..	79	1,015·85	

This leaves only 100 blocks of 728·27 square miles actually unsettled at the close of the year, *i.e.*, sixty-five blocks of 427 square miles notified under section 4 in 1886-87 and thirty-five blocks of 301 square miles notified in previous years.

Much difficulty has been experienced in getting Collectors and District Forest-officers to send in proposals and notifications under section 4 in a correct and business-like manner with all the accompaniments, such as key-map, &c. This has been brought to the notice of the Board, who, in their Proceedings, dated 3rd February 1887, Forest No. 62, drew the attention of Collectors to the subject.

7. *Reserved Lands.*—From the area of reserved lands (Form 59-C.) on 1st April 1886, viz., 3,503 square miles, 312·88 square miles are deducted by transfer to reserved forests (Form 59-A.), and to the remainder, viz., 3,190 square miles, 27·21* square miles were added by transfer from areas considered reserves prior to Act V of 1882 (Form 59-B.), 41·78† square miles from "other forests" (Form 59-D.), and 15·65 square miles by correction of areas according to survey, &c. New areas aggregating 380·21 square miles were added in the following districts:—

	SQ. MS.
* Chingleput	4·00
South Arcot	23·21
† South Arcot	1·58
Madura	40·00
South Canara	0·20

		SQ. MS.
Chingleput, South Arcot, South Coimbatore, Malabar (Wynaad and Pálghat)		12
North Arcot		100
Salem	22	110
Madura	55	
South Canara	33	
Trichinopoly		158
Total ...		380

These new areas are merged in those notified under section 4 of the Forest Act during the year and shown in paragraph 6 *supra*, excepting 28·75 square miles in Trichinopoly which represent the extent of forty-eight blocks constituted reserved lands under rule 2 of the rules under section 26 of the Act preparatory to notification under section 4 after the boundaries have been carefully identified and demarcated in a preliminary manner. In no other district was there any reservation of lands under the said rule during the year. The net addition to reserved lands during 1886-87 was 97,262 acres, or 152 square miles.

8. *Form 59-B.*—Areas regarded as reserves prior to Act V of 1882 exhibits a net reduction of about 27 square miles during the year, due to transfer to areas of reserved lands, as already explained.

Under "other forests," Form 59-D., there was an addition of about 15·25 square miles caused by correction of areas in South Arcot and Trichinopoly, and a reduction of about 41·78 square miles by transfer to "reserved lands," the net decrease in area being about 26½ square miles.

9. The total areas in each class on 31st March 1887 as compared with those on 31st March 1886 are as follows:—

Class of Forests.	Area on 31st March 1886 in square miles.	Area on 31st March 1887 in square miles.	Difference in square miles.	Percentage of Forest area to District area on 31st March 1887.
Reserved forests under Act V of 1882 ..	1,526·12	1,838·45	+ 312·33	3·00
Reserved lands	3,502·93	3,654·91	+ 151·98	5·97
Forests regarded as reserves prior to Act V of 1882	307·18	280·27	— 26·91	·45
Other forests	1,125·73	1,099·08	— 26·65	1·79
Total ..	6,461·96	6,872·71	+ 410·75	11·24

The above figures prove that we are keeping well within the mark as regards the proportion of forest areas to be reserved and brought under conservancy, compared with those left unreserved for extension of cultivation and the exercise of privileges by cultivators. The Government forest estates in the Southern Circle will probably eventually aggregate *at least* 10,000 square miles as compared with district areas aggregating 61,130 square miles.

10. *Boundaries.*—The clearing of boundary lines and demarcation made better progress than in the previous year, the figures being 1,134 running miles at an expenditure of Rs. 8,735 (average Rs. 7-11-3 per mile) as against 793 miles at a cost of Rs. 5,317 (average Rs. 6-11-3 per mile) in 1885-86.

The permanent demarcation of the reserved forests is a most important matter, and the greatest difficulty is experienced in securing accuracy on the part of subordinates (Rangers and Foresters) entrusted with the duty, so much so that Mr. Cherry, the District Forest-officer, Salem, finds it necessary to attend to it himself. A few reliable demarcation officers are much required.

The following tabular statement exhibits the work done in the different districts :—

Districts.	Particulars.	Width of the line cleared or demarcated.	Reserved Forest.		Reserved Lands.	
			Length of the line cleared or demarcated	Cost.	Length of lines cleared or demarcated	Cost.
		FEET.	MILES.	RS.	MILES.	RS.
Chingleput.	Permanent demarcation of the remaining portions of the works commenced in the previous year was completed and 60 stones (with letters R. F. cut) fixed	15	5	312	..	..
	Demarcation of lines and collection of 50 stones ..	12	41	1,043	..	..
	Preliminary demarcation with earth and stone cairns ..	..	..	..	..	49
North Arcot.	Permanent clearing of boundary lines on the Javâdis and opening out demarcation	..	..	..	20	345
South Arcot.	Clearing of old and new boundary and compartment lines.	..	..	..	120	476
	Planting boundary lines with aloes	..	..	..	2½	34
	Clearing 2,810 old trenches (boundary marks) of silt, &c.	..	..	..	..	68
	Half the cost of demarcating the district boundary and erecting 36 masonry pillars in the new tract lately transferred from Salem between North and South Arcot.	24	..	..	15	330
Salem ..	Clearing and demarcating (latter only 137 miles) ..	..	..	..	148	1,750
Trichinopoly	Clearing boundary lines and demarcating a portion with 251 stones (purchased in previous years) at 55 yards apart, &c.	..	..	..	8	160
	Temporary demarcation with 1,287 wooden posts marked "R.F." fixed 100 yards apart from each other ..	..	..	..	71	197
North Coimbatore.	Clearing permanent demarcation lines at different widths and erecting 78 cairns and 2,693 posts, &c.	..	..	..	140	723
South Coimbatore.	Clearing lines and erecting 203 cairns with wooden posts, &c.	..	44	347	..	..
Madura ..	Clearing of lines and demarcating with rock marks or special boundary pillars in 5 reserves; demarcating and surveying 3 others, and merely demarcating another; also purchasing demarcation stones for 2 reserves and peg marking one	12 to 15	92	1,083	..	..
	Demarcating and surveying one block and clearing the outer boundary line of another	..	..	..	12	49
Tinnevelly.	Re-clearing boundary lines between Government and other private forests	6	61	201	..	..
	Demarcating with 327 stones 7" × 6" × 4" letters F.D. and serial numbers cut on them	..	..	..	..	315
	Re-clearing the Revenue Survey line forming the eastern boundary of the lower slopes of the ghât in the Ambâsamudram and Nânguneri taluks and replacing missing stones	4	..	..	57	331
Malabar (Wynaad and Pâlghat.)	Clearing boundary and erecting 771 cairns and about the same number of teak posts and reconstructing 32 cairns and pillars wrongly put up	..	151	573	..	..
	Clearing boundary and erecting 340 cairns and teak posts.	..	..	..	42	271
South Canara	Erecting 638 rough-stone cairns, 4 feet diameter and 3½ feet high, &c.	..	..	..	105	78
	Total ..	..	394	3,559	740	5,176

In addition to the above, the District Forest-officer, South Arcot, established about 10,800 casuarina plants at 3 feet apart along the boundaries of the Coast plantations for a distance of six miles.

With a view to avoid possible disputes with private estates, the District Forest-officer, Salem, issued notices under the Boundary Act to the owners of certain properties, eight in number, to clear their limits. Five of them had complied, and three others had the work in progress at the end of the year.

In the matter of the Travancore boundary on the Anaimalais, referred to in the last annual report, the arbitrator (Mr. J. C. Hannyngton, C.S.) gave his award, and

the line to be adopted was settled definitely (*vide* G.O., dated 2nd October 1886, No. 853) and instructions issued for its demarcation, &c.

CHAPTER III.

SURVEYS, WORKING PLANS AND ANNUAL PLANS OF OPERATIONS.

11. *Surveys.*—Nothing definite has yet been decided with regard to the organization of a Special Forest Survey Party, although the pressing need of forest maps is fully recognized.

A conference took place in June 1886 at Ootacamund between the Revenue Secretary to Government, the Superintendent, Madras Survey, and the Conservators, who were unanimously of opinion that the Madras Survey should hand over to the Topographical Survey Department of the Government of India the topographical work in the Madura and Malabar districts, which had been partially completed, and that in Tinnevelly and South Canara (where nothing had yet been done), and that the forest surveys in these districts should be undertaken by the Topographical Survey Department provided the work was promptly taken in hand.

The Surveyor-General, Calcutta, accordingly arranged, in September 1886, to commence operations in Madura and Tinnevelly, the survey to include that of the forest reserves on such scales as might be required by this department. The District Forest-officers concerned were instructed to render all possible assistance. The boundaries of reserved forests on the Palnis in the Madura district have been cleared, demarcated and kept ready for survey, but the progress during the year, as reported by District Forest-officers, appears to have consisted in merely fixing of stations on selected peaks preparatory to a triangulation survey being effected.

The Superintendent promised to arrange for the survey of the Gingee hills (50 square miles) in South Arcot, to enable the District Forest-officer to elaborate a preliminary working plan for those reserves, but nothing appears to have been done.

Almost the whole of the other districts in this Circle are stated to have been topographically surveyed by the Madras Survey Department on the one-inch scale, but it appears that the work has not, as a rule, been checked by competent superior officers, and the maps are therefore more or less inaccurate even when published. Colonel Sargeant admitted this when he came to look into matters, and it is believed that steps are being taken to check and revise the maps, but the Survey Department like our own is very short of officers.

As the scale of one mile to the inch is too small for our purposes (valuation surveys and framing preliminary working plans), the Superintendent agreed to provide outline maps on an enlarged scale, on which the details we require would be filled in by temporary surveyors and Forest Range-officers, when qualified, working under the District forest-officer, the maps being finally reproduced by photo-zincography in the Survey Office at Madras. That has to some extent been done, four surveyors having been entertained (Board's Proceedings, Forest No. 546, dated 11th October 1886). This arrangement suffices for the small areas hitherto brought under the provision of preliminary working plans, but great difficulty is experienced in securing the services of qualified surveyors who will work in the forests, and the District Forest-officers have really too much work to supervise them even when they are competent to do so.

Moreover, working plans covering much larger areas on a less elaborate scale are urgently required and cannot be prepared without proper maps. For this purpose, the services of a Special Forest Survey party, working under the orders of an officer conversant with our requirements as foresters, appear indispensable.

During his visit to Dehra Dún, the Conservator ascertained that such a party could best be organized and worked by a Forest-officer trained in forest surveys, and proposed that, as soon as an officer is available, he should be sent to work under the Superintendent, Forest Surveys, Government of India, and return, when qualified, with a small staff of experienced forest demarcators and surveyors kindly promised by

Mr. Reynolds. The paucity of officers of the superior staff is the great difficulty to carrying out this idea which is still under consideration.

12. The preparation of a special forest atlas for the Presidency was suggested by the Board of Revenue, but the idea was abandoned on the Superintendent, Madras Survey, pointing out the large outlay and the length of time which it would involve. A more feasible plan of showing reserved forests and reserved lands on the Office Reference Map of the Presidency now in course of completion, was decided upon and is believed to be in progress.

13. *Departmental Surveys.*—A few surveys were done departmentally during the year.

In Chingleput 954 acres ($1\frac{1}{2}$ square miles) of the southern portion of the Kámbákam plains forest and 263 acres of Meyúr plantation were surveyed and the former plotted to a scale of 10 inches = 1 mile, but the maps have not been published.

In Salem about 6 miles of outline along the Kanavaiputtur reserve were surveyed, but further progress was impeded owing to the resignation of the temporary surveyor employed on the work on the plea of ill-health.

In South Coimbatore a temporary surveyor resigned on a similar plea, and the Sub-Assistant Conservator of Forests attended to the surveys in the Bolampatti reserved forests in connection with working plans. The work chiefly consisted in filling in details on skeleton maps provided by the Survey Department, in surveying block and compartment lines, and making linear valuation surveys; the work was well done, and the maps are now being reproduced by draughtsmen in the Central Office with a view to publication. If ready in time, one or more will accompany this report.

In North Coimbatore the Vellamundi reserved forest (25 miles) is said to have been surveyed, but no map has ever been received.

The progress in Trichinopoly was greater than in other districts. A theodolite survey of three reserved forests and two reserved lands, with a total area of 5·35 square miles in the Manapárai sub-division of the Kulitalai range, approached completion during the year. The previously estimated areas of two of the forests, viz., Minnakardu and Punjantángi, are found to differ widely from those now ascertained by actual survey. The correct areas are now entered in the returns. Five other blocks of reserved lands (564·23 acres) were also surveyed either by theodolite or prismatic compass.

In Tinnevelly a traverse survey of the "Paradese coffee estate," containing 158·22 acres, and of the areas (193 acres) sown with palmyrah nuts in 1881-82 in the Kudiraimalai teri reserved land were completed.

In South Canara chain and compass traverse round Chinkramale forest was completed and another made round Serpinakadu, a small catechu forest in Kandapúr range and Pillárkhán forest in the Udipi range, but the maps were not plotted before the close of the year. The temporary surveyor in South Canara was engaged since January 1886 in sketching the Todur and Hosabetta blocks with an estimated area of $3\frac{1}{4}$ square miles on a scale of 8 inches to the mile. He also commenced a portion of the Andúr block (3 square miles) on the 4-inches scale, on which he was engaged at the close of the year.

14. *Other Surveys.*—The survey of the Lower Palni villages in the Madura district by the Revenue Survey Department was completed during the year, but no maps have as yet been published. The survey of the Padugais on the left banks of the Cauvery and Coleroon rivers in Trichinopoly was continued during the year by the Survey Department, but the work was put a stop to, owing, it is stated by the District Forest-officer, to want of funds and the orders to defer any detached surveys until a future period, as the Survey Department found work more pressing elsewhere.

In Malabar (Wynaad and Pálghat), the small portion of the western boundary of the cardamom forests at Kunnat Kottai (about 7 miles in length) and the western boundary of the Chenat Nair forests in Pálghat were surveyed by the Revenue Survey Department, besides other small blocks such as the Botanical Garden extension, the land purchased with the Dindimal house, two abandoned estates in Kudrakote, as well as certain other blocks ordered by the Forest Settlement-officer to be excluded from the reserves.

In Wálayár several surveyors and demarcators, assisted by the Forest Ranger, were employed in dividing the two blocks of the Wálayár reserved forest into compartments and sub-compartments and in demarcating out the blocks of sheet rock and small patch of Irular's cultivation, but they were all laid up with fever and the work was very badly executed, which has delayed the completion of the preliminary working plan on which the District Forest-officer was engaged. The work was being revised at close of the year.

15. *Working Plans.*—Three preliminary working plans were finally approved and sanctioned during the year, viz., those for Sholakarai in South Coimbatore and Morúr in Salem, referred to in paragraph 21 of last year's report, and one for the Cauvery south bank plantations (reserved forests) in Trichinopoly.

The two former are worked under the "coppice with standards" system and the latter under a mixed system of coppice and artificial replanting. The annual acre increment in the Cauvery plantations is calculated at 3·3 tons, valued at Rs. 9-8-0, which is very satisfactory, but will doubtless be increased under more systematic management and thorough protection.

A working plan, based on valuation surveys, was prepared for the Tokadi leased forest on the Anaimalais (South Coimbatore division) and formed the basis of the terms of a new and improved lease which has been concluded. The working plan will now be revised and its provisions applied from the current year. Fellings have already been conducted in accordance with it, which will supply valuable data with which to check our calculations and estimates.

Preliminary working plans for the Chinnar working circle (3,254 acres) and Noyel-Vellengiri working circle (13, 303 acres) in the Bolampatti range of the South Coimbatore division have been prepared and were under consideration at close of the official year. The former is to be treated as "coppice" and the latter as "high forest" under the "jardinage" (selection felling) method. Working plans for the treatment of high forest are naturally much more complicated than those for coppice or plantations, and immediately we have to deal with comparatively large areas as in the Noyel-Vellengiri working circle, grazing and other considerations present themselves, which will have to be referred to Government for settlement before the working plan can be finally sanctioned.

In North Arcot a working scheme for the plantations was drawn up by the Conservator when in the district, under which the annual fellings and re-plantings will be as follows, the estimated annual outturn being 3,000 tons of billet wood calculated on an annual acre increment of 3 tons :—

Year.	Tiruvallam.		Virinjipuram.		Kilminnel.		Ammerdi.		Vanniveedu.		Total area to be felled and re-planted annually during the present rotation.
	Number of compartment.	Area.	Number of compartment.	Area.	Number of compartment.	Area.	Number of compartment.	Area.	Number of compartment.	Area.	
		ACS.		ACS.		ACS.		ACS.		ACS.	ACS.
1886-87	10	54·80	4	24·39	..	..	..	..	..	..	79·19
1887-88	9	44·82	1	46·35	..	..	..	..	..	..	91·17
1888-89	8	40·70	2	39·90	1	26·10	..	..	..	..	106·70
1889-90	7	41·90	3	49·15	4	3·51	..	..	..	..	94·56
1890-91	6	54·24	6	46·95	..	..	..	..	..	..	101·19
1891-92	5	44·50	..	..	..	..	1	55·50	..	..	100·00
1892-93	4 3	35·10 43·03	..	..	..	..	2	14·50	..	..	92·63
1893-94	2 1	44·36 29 30	..	..	..	..	3	26·44	..	..	100·10
1894-95	..	..	..	..	2	37·07	4	63·56	..	..	100·63
1895-96	..	..	5	52·23	3	42·60	..	..	1	30	124·83
Total ..	..	432·75	..	258·97	..	109·28	..	160·00	..	30	991·00
Unproductive area ..	..	2·12	..	1·51	..	2·26	..	..	..	..	5·89
Total area as per survey.	..	437·87	..	260·48	..	*111·54	..	160·00	..	30	996 89

* 38·46 acres washed away by floods has since been reclaimed from the river and has to be added, which will make the area 150 acres.

Suggestions were at the same time made for the formation of the Mámandúr and Ambúr working circles with an area of about 18,000 acres each, for which, when divided into blocks and compartments of convenient size and mapped, working plans can be framed.

The collection of information with regard to the number and dimensions of sandalwood trees on the Javádis was continued during the year. It is hoped that one "nád" will be completed during the current official year; but it will doubtless take some years to finish the whole Javádis with the limited establishment now at our disposal. Until this is done, we should be working entirely in the dark, and therefore all felling of sandalwood, except of really old back-going trees and digging up of old roots, has been prohibited.

In South Arcot rough working plans are stated to have been drawn up for the Tiruvannámalai reserved forest in view to its being handed over to the management of the local Temple Committee (*vide* G.O., dated 23rd March 1887, No. 317) and for the Shónankuppam plantation, but neither have réached this office.

A preliminary working plan for the Alagarmalai reserved forest (20 square miles) in Madura (prepared by Mr. C. Somers Smith, Assistant Conservator of Forests,) was received during the year, but had to be returned by the Conservator for revision.

In Tinnevelly data were being collected during the year by the felling of compartments on the "coppice with standards" system aggregating upwards of 50 acres.

In Salem extensive areas are being surveyed and mapped prior to division into blocks and compartments, and the framing of working plans for the supply of the Madras Railway and Salem town as suggested in the Conservator's inspection memorandum.

The resignation of the surveyor, the delegation of Mr. Carroll, Sub-Assistant Conservator of Forests on other duty, and press of work generally, has, however, delayed the work.

Similarly in Malabar (Wynaad and Pálghat) the working plan for Wálayár (3,017 acres) has been delayed for want of the map referred to under "surveys."

16. Generally it may be said that, whilst every endeavour has been made to bring the plantations and reserved forests under something in the shape of working plans even of the most rudimentary description, much progress has not been made owing to District Forest-officers and their subordinates having their hands full with the selection, settlement, and demarcation, of reserved forests in addition to their routine duties.

No officers are available for the special work, and until they are, it is impossible to expect good results in this important direction.

17. *Annual Plans of Operations.*—Annual plans of operations were drawn up in connection with the budget, but cannot be said to have been adhered to, whilst for the current official year they have been utterly upset by the demand for a large surplus revenue and consequent alteration in our figures and plans.

CHAPTER IV.

PROTECTION AND IMPROVEMENT.

Section 1.—*Reserved Forests.*

Section 2.—*Other Forests.*

18. It is still found inconvenient to deal separately with the reserved and the other forests, for reasons given in previous annual reports; but the establishments are being gradually concentrated on the "reserves," and a separation will shortly be practicable in some divisions.

(*a*) *Establishment, Ranges and Beats.*

19. *Establishments.*—The superior staff remained the same as in the preceding year, consisting of 1 Conservator, 8 Deputy Conservators and 5 Assistant Conservators,

of whom one Deputy Conservator (Mr. H. A. Gass) proceeded on furlough in August, Mr. Peet taking his place *pro tem.* in Madura, and T. Muhammad Ali Sahib Bahadur, Sub-Assistant Conservator, 1st Grade, acting in the Assistant Conservator's class, to fill the vacancy.

The average charge of a Divisional or District Forest-officer in the Circle is about 4,700 square miles, of which about 530 square miles is actual forest under the special charge of the department.

20. The scale of permanent establishments (subordinate staff) sanctioned for the year did not vary materially from that for 1885-86. It was as follows :—

Sub-Assistant Conservators	7
Rangers	30
Foresters	73
Forest Guards	357

One Sub-Assistant Conservator, Mr. Eber Hardie, was promoted from the 2nd to the 1st Grade. Mr. Marshall, Sub-Assistant Conservator, on probation, proceeded to the Forest School, and one appointment in this class was left unfilled up as no suitable person could be found to fill it. We are really short of our establishment by three Sub-Assistant Conservators, the maximum number sanctioned for the Circle being eight, whilst only five (excluding Mr. Marshall) are entertained. It is hoped that some of the Rangers, who have qualified at the Forest School, will prove their fitness for promotion during the current year.

An additional Forester was entertained for Tanjore, and another and five extra guards for North Arcot, owing to transfer of large areas to that district from Salem. Savings were effected by the non-entertainment of the Sub-Assistant Conservators referred to above and the entertainment of men in all classes in lower grades than were provided for in the sanctioned scale for the year.

21. *Ranges and Beats.*—The number of ranges into which each district is divided is shown in the following table, together with the approximate average area of each range charge and that of the actual forest which it includes :—

Districts.	Number of Ranges.			Approximate average area of each range charge.	Approximate average area of actual forest in each range charge.	Remarks.
	In charge of Forest Rangers.	In charge of Foresters.	Total.			
Chingleput	..	* 4	4	710	32	* One of these is temporarily in charge of a Forest guard.
North Arcot	3	1	† 4	1,814	205	† The number of ranges has since been increased to 10, of which 4 are under Rangers and 6 under Foresters.
South Arcot	2	5	7	696	152	
Salem	3	6	9	850	99	
Trichinopoly	2	3	5	712	40	
Tanjore	..	2	2	1,827	11	
North Coimbatore ..	3	..	3	713	369	‡ One of these is temporarily in charge of a Tahsildar.
South Coimbatore ..	3	‡ 5	8		73	
Madura	3	2	5	1,680	130	*Note.*—The figures quoted under approximate area of forest in each range charge exclude areas of private or Zemindari forests.
Tinnevelly	2	..	2	2,600	310	
Malabar	3	3	6	961	113	
South Canara	1	4	5	780	22	
Total ..	25	35	60	1,019	115	

It will be seen from the above that the average range charge embraces 1,019 square miles, of which 115 square miles at least is actual forest. The average charge of a Forest guard (Beat) is about 20 square miles of forest.

Those areas are really far too extensive for proper supervision, and when we secure the whole forest area which can legitimately be reserved, say at least 10,000 square miles for the Circle, we shall have to augment and re-distribute the

establishments so as to ensure thorough protection, proper forest management, and adequate financial results.

South Coimbatore is the only division in which the constitution of reserved forests may be said to have been completed. Here the limit and area of range charges (excluding the Palladam range fuel and fodder reserves under the Tahsildar) as well as of guards' beats or blocks have been defined and marked on the ground and the responsibility of each individual officer duly fixed. The average extent of each range charge is about 81 square miles of actual forest and of each Forest guard about 20 square miles, but the size and relative importance of the range charges and beats vary very considerably.

Attempts have also been made in Malabar (Wynaad) and South Canara to define more accurately the extent of each Forest guard's beat or charge, but matters are not yet definitely settled.

Generally it may be stated that under Mr. Brandis' scheme of organization, Forest Range-officers are in charge of all the woodlands and tree growth within the limits of their range and have to travel all over it to assess the value of trees, collect seigniorage, check permits, &c. It is only as reserved forests are constituted that it will be possible to show the extent of actual 'forest' in each charge separately.

(b) *General Protection and Breaches of Forest Laws.*

22. General protection has continued to improve, but will not be complete until we have a stronger and better educated professional staff to guard and work the reserved forests in a rational manner.

A detailed statement of prosecutions for breaches of forest laws will be found in Form No. 63. The results for the whole Circle as compared with the preceding year may be summarized as follows:—

Year.	Number of cases pending at commencement of the year.	New cases for the year	Total.	Number of cases compounded, &c.	Balance.	Number of cases disposed of by Magistracy during the year.	Number of cases convicted.	Number of cases acquitted or discharged.	Percentage of convictions.	Number of cases pending at the close of the year.
1885-86 ..	189	1,154	1,343	281	1,062	971	645	326	66·4	91
1886-87 ..	94	1,339	1,433	460	973	817	574	243	70·2	156
Difference ..	— 95	+ 185	+ 90	+ 179	— 89	— 154	— 71	— 83	+ 3·8	+ 65

The increase in percentage of convictions obtained is satisfactory.

The number of cases compounded by Forest-officers under section 55 of the Forest Act has increased by 179. From inquiries made during his tours, the Conservator has no reason to imagine that the powers are abused. The results of departmental inquiries are, as a rule, carefully recorded, but it appears advisable to secure more uniformity in procedure as suggested by the Government of India. Most of the offences compounded were of a petty nature. The amount of compensation realised was a little over Rs. 2,350, of which South Canara contributed the greater part, viz., Rs. 1,650, Salem Rs. 350, Tinnevelly Rs. 175, North Arcot Rs. 150, and the remainder came from other districts in various small sums.

The large amount collected in South Canara was chiefly for unauthorized *Kumari* clearing cases in Kásaragód and Uppinangadi.

Forest offence cases (cattle trespass) in which 140 head of cattle were concerned were compounded for Rs. 13 in South Arcot. In four others, offenders were prosecuted. Two were convicted, one acquitted, and the fourth was pending at close of the year.

In the same district 5,930 head of cattle were impounded during the year for trespassing in areas closed against grazing and the "pound fees" collected have been ascertained to amount to Rs. 560. The bulk of those cattle are, it is believed, foreign herds from Tanjore and elsewhere which have been accustomed to roam at large and

devastate the forests. Every endeavour is made to warn the herdsmen to avoid closed areas, but apparently with little good effect.

23. Great difficulty is still experienced in protecting the Trichinopoly plantations (reserved forests) from the inroads of semi-wild cattle which destroy the young trees.

The Conservator has been in frequent communication, verbal and oral, with the Collector and District Forest-officer on the subject, and it is proposed to prosecute the owners and herdsmen under section 21 (*d*) of the Forest Act after giving them due warning to adopt reasonable precautions to prevent trespass. There is still a tendency on the part of the magistracy, especially in Malabar, to deal very leniently with forest offenders. This is a fault in the right direction in the case of petty offences in ill-defined areas, but it is otherwise in the case of deliberate breaches of the law in reserved forests legally constituted and clearly demarcated by pillars and boundary lines.

(*e*) *Forest Fires and Fire-protection.*

24. Forest fires in areas not under special protection have been as usual very prevalent throughout the Circle.

It is almost impossible at present to estimate, with any pretence to accuracy, the unprotected areas which have escaped from fires. The following table affords, however, such information on the subject as the Conservator has been able to collect from a few districts. The classification adopted is mainly intended to show District Forest-officers how the information can best be recorded in future reports :—

District.	Area of forest lands in the district in square miles.	Area of forests specially protected in square miles.	Balance or area of unprotected forests in square miles.	Area of evergreen forests, &c., which usually escape fires every year, square miles.	Balance or area of deciduous, &c., forests unprotected in square miles.	Area of deciduous unprotected forests which escaped fires during the year, square miles.	Percentage of deciduous forests which escaped to the whole area of such forests.
South Arcot	1,067	121½	946	440	506	460	90·9
Salem	887	48	839	Not known.	839	400	47·6
South Coimbatore	586	22	564	..	564	553	98·0
Madura	650	244	406	..	406	238	58·6
Tinnevelly	620	62	558	247	311	Not known.	..
Malabar (Wynaad and Pálghat) ..	646	48	598	20	578	164	28·3

The Conservator refrains from making any comments or drawing any conclusions from the above figures or statistics. They are merely given for what they are worth and cannot, in the Conservator's opinion, be relied upon.

25. *Special Protection.*—The following areas have been newly brought under protection during the year :—

		ACRES.
North Arcot	1 block.	64,000
Madura	5 blocks.	31,458
Tinnevelly	2 „	19,850
South Canara	4 „	5,790
Total ...	12	121,098
Add on account of rectifications of areas in the latest estimates ...		630
Total ...		121,728

which is 22·8 per cent. greater than the addition of new areas in the preceding year.

The above added to the area successfully protected up to the beginning of the year (as shown in the last report) exhibits a total area of 692,230 acres, to which special fire-protection was afforded during the year at a cost of Rs. 16,811. It will be

seen that the total area attempted is 19·4 per cent. greater than that of the preceding year. The fires or failures during the year amounting to 24,880 acres or 3·6 per cent. of the area attempted are also, the Conservator regrets to say, greater than the preceding year's failures by 2 per cent.

The largest fires occurred in South Arcot in six out of the ten blocks under protection and burnt over 14,245 acres, or about 18 per cent. of the total area attempted. Fires occurred on fifteen occasions, during one of which they are reported to have spread from unreserved forest in the adjoining district (Salem). On all other occasions, the District Forest-officer, after personal inspection, suspects that fire was wilfully set, but the offenders have not been detected. In nine of these cases the fires were extinguished as soon as possible by the men employed for the purpose, but it seems evident that they were either new or not good workers. The comparative failure of the north-east monsoon and early drying up of the grass doubtless upset arrangements, but the conduct of the Range and Sub-range officers and guards was not all that could be desired and is still under departmental inquiry. The number and width of lines as well as the number of patrols employed were found insufficient to afford adequate protection; and further, the forests were not strictly closed to all persons, as rights of way existed which were not fire-traced, and the free cutting of thatching grass appears to have been permitted throughout the dry season, which was suicidal. The next largest fires were in Madura, where 6,168 acres were burnt. Fire is reported to have been caused by incendiarism in eleven cases, of which five were detected and delinquents punished. In two cases the origin of the fire could not be traced, while in two others it was due to accidents in burning off fire-lines; the remaining two are not explained by the District Forest-officer.

In North Arcot, where 2,485 acres were burnt, the fire is attributed by the District Forest-officer entirely to the failure of the north-east monsoon, which caused the grass to dry very early before precautions could be taken to isolate the specially-protected areas and adopt proper precautions inside But this view is not altogether correct, as at least two fires in the Mámandúr and Napier reserves were, to the Conservator's knowledge, due entirely to carelessness in burning off the fire-lines by the Forest establishment.

District Forest-officers and Range-officers will not commence their fire-protection in time or understand that complete isolation must be secured and free entry prohibited *before* the grass becomes readily inflammable. The damage done to the promising young growth of red sanders in the Mámandúr block must have been very great, and the occurrence of the fire in an area which has been protected for years is a matter for much regret. The whole of the private forests in the neighbourhood of Rénigunta, Chandragiri taluk, were ablaze when the Conservator was there in February and the danger to the Government forest was great.

Special notices should be served annually on all private owners of forest similarly situated, calling on them or their agents to adopt due precautions under section 21 (*b*) of the Forest Act.

In Tinnevelly 870 acres were burnt by four fires, of which two occurred in portions in which free grazing was allowed, and are supposed to have been caused by cattle owners or herdsmen with a view to obtain a regrowth of grass, but the fires were put out by our patrols before much damage could be done. The third was also a small fire, and the result of an accident caused by some of the minor produce contractors, who quickly beat the fire out. The fourth was a large fire in Kulakad, lighted by charcoal-burners. Strong winds carried the fire over 800 acres, before it was arrested by burning off a portion of the forest to meet it. Two charcoal-burners were apprehended and sentenced to one month's simple imprisonment.

In South Coimbatore a fire which extended over 360 acres occurred in the Tunakadavu No. 1 range before the fire-lines had been completely burnt.

In Malabar (Wynaad), the Begúr forests were successfully protected with the co-operation of the Mysore and Coorg Forest-officers, which had been specially enlisted. One fire occurred, being the work of an incendiary, but only four acres of grass were burnt and no damage done to the forest. The offender was not detected. In Chenat Nair one fire occurred in Elival hill, due to Mulcers who were roasting yams. About 300 acres were burnt. The men were, on prosecution, convicted and sentenced to fifteen days' rigorous imprisonment.

26. Although the area attempted to be protected during the year was 19·4 per cent. greater than the area attempted during the preceding year the cost was only 13·3 per cent. greater than that (Rs. 14,851*) of 1885-86, which is very favorable.

	RS.
Cost from 15th June 1885 to 31st March 1886 as per last year's report	11,482
Cost from 1st April to 14th June 1885 as per monthly accounts ..	3,369
Total ...	14,851

The area successfully protected during the year was 667,350 acres or 96·4 per cent. of the area attempted against 98·4 per cent. in the preceding year, and the cost per acre was 4·8 pies or Rs. 16 per square mile against 5 pies in 1885-86 or Rs. 17 per square mile.

The total cost from the commencement up to 31st March last amounted to Rs. 58 per square mile of successfully-protected area.

(*d*) *Grazing.*

27. The important subject of grazing was fully discussed at the recent Forest Conference at Dehra Dún, and the Government have already been informed of the resolution recorded there (*vide* Revenue Board's Proceedings, dated 22nd April 1887, Forest No. 229), which expresses exactly the Conservator's own views in the matter.

28. As regards the "light-grazing" scheme referred to in the last annual report, the Conservator has very little to add this year except that its advantages appear either not to be properly understood by the people, for whose sole convenience it is intended, or that circumstances do not really necessitate their seeking pasture in reserved forests.

This latter is a consummation most devoutly to be wished for, for there is no doubt that, from a forest point of view, *all* grazing, unless it be in the shape of a cultural operation, in the same manner as we should harrow or plough up an area to secure better reproduction or prior to sowing or planting it, does harm. The real benefit to the agricultural community of pasturing their ploughing and domestic cattle in forests at a distance from their fields and so losing the manure is also, to say the least, problematical, but it is customary, and forestry in India must, perhaps more than elsewhere, be more or less a compromise, especially in its early years and before its benefits both direct and indirect are fully recognized even by the governing body.

29. Where areas have been closed against grazing, or grazing fees have been levied in reserved forests or lands, it has been after making due and liberal provision for the free grazing of ploughing and domestic cattle of cultivators outside or inside the reserved areas, either by the exclusion of sufficient unreserved lands as in Chingleput, South Arcot, Salem, Madura, &c., or grant of free-grazing privileges within the reserves until areas can be excluded and set apart for their exercise as in North Coimbatore. The fees collected during the past year amounted to Rs. 35,665, the greater portion of which (Rs. 22,465) was realized in North Coimbatore where a census of the cattle was taken and all preliminary arrangements completed in the preceding year.

Free grazing was allowed to about 60,000 head of cattle, or nearly one-fourth of the total censused number, and much leniency shown in every respect in collecting the fees.

In South Coimbatore grazing has been practically permitted over the whole area of reserved forests, except of course the fire-protected portions. Goats and buffaloes were, however, excluded. The amount collected for cows and sheep only amounted to Rs. 5,240. The District Forest-officer is unable to estimate the actual area grazed over, but states that, although a very considerable area in the higher Anaimalais and the evergreen forests on the higher hills in the Bolampatti reserved forest is open to grazing, it is never visited by cattle. The forests most frequented are the outer and lower slopes of the hills, which the District Forest-officer apprehends will suffer greatly and the tree-growth gradually disappear, unless preventive measures are speedily adopted. He considers that even light grazing on steep hill slopes is quite inimical to natural reproduction and the retention of the forest and soil in their normal and satisfactory condition. His further observations on the subject are given under

section (*e*) of this report. The Conservator shares and endorses his views with regard to the injurious effects of grazing in open deciduous forest on steep hill slopes, even apart from the damage done by fire, which almost invariably follows in the footsteps of the cattle herd.

In Trichinopoly the right of grazing in the Cauvery reserved forests and other Padugai plantations was leased out as usual, subject to the necessary conditions as to closed areas, number of cattle to be admitted, exclusion of buffaloes and goats, &c. The revenue realized amounted to Rs. 2,328. The bulk of the hill forests was open to grazing free of any payment.

In North Arcot the District Forest-officer proposed to levy half the maximum rates sanctioned by Government in all reserved lands, and collections to the extent of Rs. 1,423 were made. Further collections were, however, suspended in February with the full concurrence of the Conservator in order that the boundaries might be revised, large areas excluded for the exercise of free grazing and other privileges, and the remainder notified for settlement as reserved forests. This was being done at the close of the year.

In South Arcot limited grazing was allowed on the Annamalai (Tiruvannámalai) reserved forest and several small herds of cattle, aggregating 448 in all, were admitted on payment for periods varying from one to three months. The fees collected from this source as well as from grazing in reserved lands amounted to Rs. 1,306.

In Madura Rs. 1,392 was realized principally from reserved lands on the Lower Palnis and in the Kachakatti forests of the Madura range.

The collections in Chingleput and Tanjore were small, amounting to Rs. 641 and Rs. 414, respectively.

In Tinnevelly a small revenue of Rs. 312 was obtained chiefly from reserved forests (Pápanásam hills), as free grazing was allowed throughout the year in the lower slopes of the ghâts (reserved lands), as well as in most of the reserved lands in the plains except in areas closely protected, *e.g.*, Kottankulam reserved land, where grass was allowed to be cut and removed free, which boon the District Forest-officer states was greatly appreciated by the people in the vicinity.

In all those districts, viz., South Arcot, Madura, Chingleput, Tanjore and Tinnevelly, the bulk of the forests were open to free and unrestricted grazing throughout the year, and the damage done by cattle, herdsmen and fires was considerable.

In Salem no fees were levied during the year, nor were any restrictions placed on cattle-grazing in other than fire-protected areas, except that goats and foreign cattle were excluded from reserved forests and lands.

Arrangements were initiated by the Conservator when in the district in January, under which grazing privileges when admissible in reserved forests will be secured in the first instance to neighbouring cultivators, subject only to reasonable restrictions and co-operation in measures of fire and general protection.

In Malabar (Wynaad and Pálghat), considerable areas of reserved forests were thrown open for light grazing without any appreciable results, the fees collected having been only Rs. 117.

(*e*) *Natural Re-production.*

30. In the fire-protected areas natural reproduction is progressing favorably. The results are more apparent in areas from which cattle also have been rigidly excluded.

31. In Chingleput and North Arcot there is little to be added to the remarks made last year, but careful personal inspection enables the Conservator to certify to the excellent results, especially with regard to the natural growth of the valuable Red Sanders (*Pterocarpus santalinus*), which is highly satisfactory.

The District Forest-officer, South Arcot, reports that seedlings of *Anogeissus latifolia* (Namai), *Dalbergia latifolia* (Redwood), and *Pterocarpus marsupium* (Vengai) are plentiful on the upper slopes of the protected portions of the reserved forests, whilst on the comparatively bare low land portions *Chloroxylon swietenia* (Satinwood) and *Albizzia amara* (Oosal) seedlings are scarce. The growth from coppice in three casuarina plantations near Cuddalore is stated to be good.

In Salem coppice shoots are springing up fairly from the stools of trees in the Morur block which were cut over departmentally between November and January last.

In Trichinopoly the areas covered with the Kasan (*Memecylon tinctorium*) enjoyed a much-needed rest, the results of which were apparent in a vigorous and promising regrowth from coppice.

In Tanjore reproduction from self-sown seed of Palai (*Mimusops indica*) in Point Calimere, Vagâi (*Albizzia lebbeck*) and Selli (*Albizzia odoratissima*) in Karungulam and Konnai (*Cassia fistula*) in Nadur as well as coppice growth of Kasan (*Memecylon tinctorium*) and Avaram (*Cassia auriculata*) has been fairly satisfactory.

In North Coimbatore there have been signs of reproduction in the Yellapálaiyam and Arachalur fuel and fodder reserves, but the seedlings have been slow in making their appearance.

In South Coimbatore the rigid protection against fire and cattle extended to the Punachi reserved forest during the past five years is at last bearing good fruit, and the extreme measures of letting in cattle to break and tread down the high coarse grass, or even to burn it, suggested last year, will not, it is hoped, now be found necessary.

The District Forest-officer reports that seedlings are everywhere pushing their way above the grass, and that if we can only exclude fire and cattle for a few more years the tract will almost resemble a plantation. Mr. Porter observes that such grass requires plenty of light, and that when the seedlings are thick it is rapidly dying down. This is just what we expected and hoped for, and it is gratifying to learn that our patience and perseverance are likely to be rewarded.

Mr. Porter refers as a contrast to the condition of the hills surrounding the Tadagam valley in the Bolampatti range, which have been almost denuded of all tree-growth and other vegetation and present a truly miserable appearance. He is averse to the admission of cattle under any conditions to the outer and lower slopes of the Anaimalais, Bolampatti and other hills. The soil is dry and of little depth, and cattle destroy not only the seedlings and grass, but the shrubs which protect them, leaving the soil exposed to be washed away by the action of the rain and mountain streams. There is much force in his remarks.

The coppice growth in coupes felled over in Sholakarai in July 1885 and 1886 is progressing wonderfully well. The results obtained by proper treatment and thorough protection may therefore safely be considered satisfactory.

For Madura, the Acting District Forest-officer has no special remarks to offer. The District Forest-officer, Tinnevelly, stated that natural reproduction in the moist evergreen forests continues to be promising, and that in the fire-protected blocks of the deciduous forests seedlings of Vengai (*Pterocarpus marsupium*) are plentiful. The reproduction of teak both from seed and coppice in the 21·75 acres treated under the coppice with standard system in the Kalakad hills is reported to be very satisfactory, while in the coppice with standard compartment in the Pápanásam hills no reproduction from seed is noticeable in the case of teak, owing probably to the thick undergrowth of grass which has sprung up. The District Forest-officer suggests that it would be advisable to root out the grass immediately after a compartment is felled, which he considers would render the surface of the soil more friable and consequently better fitted to receive the seed, and also admit of young seedlings subsisting without being choked by the rank growth of grass.

It will probably be found sufficient to have more cover in the shape of standards, or to endeavour to secure the reproduction from seed before the final cutting which admits the light on which the rank grass springs up. There are, however, but few mature seed-bearing teak trees left in the Pápanásam forests, and we must trust mainly to natural reproduction from coppice, and artificial planting or sowing.

The Kongarayakurchi reserved land, situated in the plains, was fenced during the year, and the reproduction from the seed of Wodei (*Acacia planifrons*) and Nim (*Melia indica*) is reported on favorably.

Seventy-five clumps of bamboos were felled over on the system recommended by Colonel Van Someren, Conservator of Forests, Berar, of cutting only those culms over five years old, and the reproduction promises well.

In Malabar (Pálghat) the reproduction from coppice in the coupes felled in the Wálayár reserved forest continues to be excellent, that from seed in the case of teak

and vengai has also been good. In Chenat-Nair the young irul comes on remarkably well. In Wynaad most of the seedlings burnt over in Begur in the previous year have died out completely, excepting those of two or three years of age, which are throwing up healthy coppice shoots. It is expected that the successful protection afforded during the year under report will give them a good start.

The seeding of vengai in Wynaad is reported good.

In Nilambúr the growth both from seeds and stools in the Karimpoya and Nellikutta reserved forests continues to be good.

In South Canara the coppice growth in the compartment felled in Poitaje is satisfactory, except in the case of *Hopea Wighteana*. *Butea frondosa* is stated to have coppiced very well from old stumps even, the shoots being 6 feet high in a couple of months. The District Forest-officer reports that in the Ullal casuarina plantation self-sown seedlings germinated towards the end of last monsoon and survived till the end of November in moderate shade growing to about 9 inches in height.

(*f*) *Artificial Reproduction.*

32. The area of regular plantations (Form 60) at the beginning of the year was 12,234 acres and cost from the commencement Rs. 5,83,537. The area and cost added during the year were acres 239 and Rs. 29,524 and those deducted acres 687 and Rs. 27,842, respectively, the net result at the close of the year being 11,786 acres of regular plantations at a total cost up to date of Rs. 5,85,219 or about Rs. 50 per acre.

Of the area added 75 acres were retransferred from the Jail Department in South Arcot, and the remainder represents extensions during the year of 155 acres of casuarina in South Arcot, 8 acres of teak and mahogany in Malabar (Nilambúr) and 1 acre of casuarina in South Canara. The planting of teak with mahogany standards in Nilambúr really extended over 108 acres during the year; but 100 acres were included in the returns for 1885-86, as the land had been cleared and got ready for planting.

Besides the extensions as detailed above, there were new plantings or replantings chiefly of casuarina in about 233 acres in the marginally-noted districts in the blank or felled areas already included in former year's returns; thus the actual new plantings during the year amounted to 497 acres as compared with 210 acres (excluding 100 acres in Nilambúr) in the previous year.

	ACRES.
Chingleput	14
North Arcot	135
Trichinopoly	24
Tanjore	60
Total ...	233

Notwithstanding the much larger area planted, the cost of extension and maintenance of the old plantations amounted only to Rs. 29,524 * during the year against Rs. 28,519 in 1885-86. The comparison is much in favor of the year under report and shows that greater economy is secured year by year. The area and cost deducted or excluded during the year were in the following districts :—

* Includes Rs. 249 omitted in the return for 1884-85 in one of the plantations in the Udayárpálaiyam range of the Trichinopoly district.

	ACRES.	Cost. RS.
Chingleput	136	274
Trichinopoly	58	...
North Arcot	493	27,568
Total ...	687	27,842

In Chingleput the Covelong plantation of 2 acres, which cost Rs. 274, was abandoned on account of its bad growth. The remaining 134 acres in that district and 58 acres in Trichinopoly were deducted owing to deficiency found by survey in the areas as formerly estimated. The reductions in North Arcot were due to the

transfer to "Topes" of 11 experimental plantations or gardens erroneously shown under regular plantations in previous years, and to the abandoning and transfer of "Tongal" plantation to unreserved lands (*vide* Board's Proceedings, dated 23rd May 1887, Forest No. 296, Mis.).

The casuarina plantations in Chingleput, North and South Arcot, Trichinopoly, Tanjore, &c., are doing well, and the year's planting may be considered a success, except a small portion at Pettuvaitalai in Trichinopoly, where about 3,000 plants were browsed down by semi-wild cattle. It is found impossible to exclude those beasts, although a strong fence was erected, and further planting had to be abandoned. Drastic measures will have to be adopted.

Casualties in the year's planting and that of previous year's were made good as far as possible. The nursery arrangements were, as a rule, good, particularly in South Arcot, and the requisite number of plants were always readily available.

In Madura 5,500 new pits were dug in the Parappar plantation, but no plants were put out. 7,000 casualties were replaced, but most of them perished. The nursery arrangements were bad and plants not well established. The abandonment of this plantation is contemplated as the site is too exposed and rocky.

The Vannatiparai teak and other scattered plantations in Madura are reported to be in good condition.

In North Coimbatore the planted area of the Bailur sandalwood plantation in Kollegál is found to be 67 acres with 34,472 living trees. To promote the growth of the trees which is stunted, it is proposed to irrigate them from the Oodutorai hulla stream, for which purpose an anicut and channel are being constructed. In this plantation 3 miles and odd of roads and paths from 6 to 18 feet in width were cleared and repaired during the year. One and a half miles of lines between the several years' planting were cleared of grass and 10,600 sandalwood trees pruned. The cooly lines and outhouses were also repaired.

In Malabar (Wynaad) the teak plantations at Kanot (41·50 acres) were weeded and fire-protected during the year, and the growth shows a marked improvement.

In Nilambúr 123,787 teak and 6,472 mahogany seedlings were put out during the year, but there were many casualties in the former owing to insufficient rainfall in June and July; 30,515 in all had to be replaced. The newly-planted area was weeded four times during the season, and the total outlay on the extension of 108 acres amounted to Rs. 3,343-8-0 against Rs. 3,600 estimated. Rs. 7,546 were realized *per contra* by sale of the trees felled which in former years would have been burnt. The Conservator inspected the new planting in November last and formed a favorable opinion of Mr. Hadfield's work (*vide* Board's Proceedings, dated 1st February 1887, Forest No. 50).

Another 100 acres block No. II in the same locality (Panangode) in continuation of the 1st block has been felled, cleared and burnt off and the necessary supply of seedlings duly arranged for. This extension promises so far to be a great success.

33. *Cultural operations.*—The area under cultural operations at the commencement of the year was 2,536 acres and 100 miles of channel banks costing Rs. 28,460. The area and cost added during the year were acres 436 and Rs. 4,201, respectively, the result at the close of the year being 2,972 acres and 100 miles of channel banks costing Rs. 32,661 in all.

133 acres costing Rs. 148 in South Arcot and 114 acres costing Rs. 190 in Tinnevelly omitted in the previous year's returns owing to the charges having been adjusted under A-VIII (*f*) are now included in the area and cost added during the year. The actual additions during the year under report therefore consisted of only 38 acres in South Arcot [cost not given but adjusted under VIII (*f*)], 119 acres in Tinnevelly (the cost of the latter, viz., Rs. 229, was also debited to VIII (*f*), but shown in Form No. 60 also) and 32 acres cardamom in Malabar (Wynaad).

The cost during the year also includes Rs. 1,141 paid on account of cost of Persian date-palms imported and Rs. 784 paid to Mr. Ferguson of Calicut for rubber experiments as per Board's Proceedings, dated 22nd April 1886, Forest No. 124, Mis.

The 38 acres in South Arcot were ploughed and sown with cashew and babul seeds, but the results were poor owing to the partial failure of north-east monsoon.

In Tinnevelly the operations were chiefly confined to the Kudiraimalai teri reserved land in which 96 acres were sown with 75,000 palmyra nuts. Several herds

of goats were penned in another 23 acres and fed for five or six days upon the full pods of *Acacia planifrons*, and the reproduction from the seed which passed through the stomach of these animals was, the District Forest-officer says, all that could be desired. Some of the seedlings produced died away owing to the unusual drought which ensued, but a sufficient number remain to produce a fully-stocked forest.

The palmyra nuts sown have commenced to show their cotyledons above the surface of the soil. The seedlings produced from sowings since 1879 are, on the whole, in a satisfactory condition, but those from sowings previous to that year are not progressing so favorably owing to the unfavorable situation of the sites chosen.

There were small cultural operations in a few other districts also, viz., in Chingleput about 900 plants of mahogany, nagai, sissu and cork were transplanted and 15,000 palmyra seeds sown along the boundary lines (5 miles) of Tirukalikundram reserve. In North Arcot seeds were sown broadcast in some of the fuel and fodder reserves, and in a few others small pits were made and three or four seeds put in each. In Trichinopoly the gaps along the Coleroon paduguis were filled up. In Tanjore about 2,000 pinnai seeds were put down and eighteen jack seedlings and sissu cuttings were planted, besides a few other seedlings of mango, tamarind, &c.

In Malabar (Wynaad) 30 lb. of *Ficus elastica* seeds from Assam were sown in the beds in the botanical garden and in the nurseries at Kanot. In the latter 1,100 plants were successfully raised and are on an average 3 feet high. The plants are quite healthy and vigorous. 2,000 mahogany seeds were sown in Kanot and 800 plants raised, but only 400 of these were alive at the close of the year. The site is probably too high and exposed.

Mr. Morgan, the District Forest-officer, writes: "Both in the case of *Ficus elastica* and mahogany the loss of young plants from insects was very great. Caterpillars attacked the seedlings of the former when in their earlier stages and mowed them down in thousands. These caterpillars were the larvæ of a small grey moth and nocturnal in their habits, only feeding at night and burying themselves by day. They were searched for and destroyed. In the case of mahogany, the young plants were cut down in the seed beds by a gryllus, and thus no less than 400 of those raised were destroyed."

Some *Beesha Travancorica* bamboo seedlings were raised from seed and planted in the nursery. A few of them were destroyed by white-ants and monkeys and the rest are growing vigorously, the plants being over 3½ feet high. Seventeen cuttings of giant bamboo (*Dendrocalamus Brandisii*) were successfully struck and planted out at Kanot, but only eight have survived. One cutting of the golden Burman bamboo planted out is doing well.

A considerable area was sown broadcast with teak seeds in Kanot tuckles (old clearings). In the Periya range about 32 acres were planted up with cardamoms, but only 50 per cent. of the plants put out are now alive.

In Malabar (Nilambúr) 1,039 mahogany seedlings were planted in Panangode in addition to those planted with the teak, and 500 seedlings of Burma bamboos (*Cephalostachyum Pergracile* and *Dendrocalamus Longispathus*) were planted along the river banks.

34. *Topes.*—The number of topes at the commencement of the year as per last annual report was 1,269, covering an area of 18,252 acres and costing Rs. 2,59,914 in all. The figures in North Arcot, Salem, &c., were revised during the year, and, according to the latest information available, the number of topes at the end of the year (Form No. 61) is 1,284 extending over an area of 18,909 acres. The cost of maintenance during the year amounted to Rs. 7,921, but Rs. 25,478, being cost omitted in previous years, *e.g.*, North Arcot, have also now been added, and the total cost from the commencement as far as can be ascertained amounted to Rs. 2,93,313 on 31st March 1886. This is about Rs. 15-8-0 per acre, but does not represent anything like the real expenditure under the old Jungle Conservancy Fund, which is lost in oblivion.

In Chingleput one small tope of 2 acres at the kasba omitted in previous year's return has been included. In North Arcot eleven topes were added from plantation returns, but the correction of numerous other errors in previous year's entries resulted in a net reduction of 22 in the total number of topes and an addition of 90 acres. In Salem 35 topes and 546 acres were newly entered in the return for 1886-87. In

North Coimbatore the area has been increased by 18 acres. In Madura two topes and 2 acres were added. In Tinnevelly one tope of one acre in Sankaranainárkoil kasba sold during the year for Rs. 307 was struck out of the list.

In South Arcot three topes only were leased out, and the fruit and pasture in all the rest were enjoyed free by villagers. In Chingleput and Salem the topes have mostly been leased out and in the latter Mr. Cherry has reduced the number of watchmen. He says the next leases will extend to 3 or 5 years, but in the meantime he is trying to persuade other departments who make use of certain topes or buildings in them to take them over, but they, as a rule, object on the ground that they have no funds from which to provide for their protection.

35. The following is a summary of results under this section :—

—	At the commencement of the year.		At the close of the year.		Difference.	
	Area in acres.	Cost.	Area in acres.	Cost.	Area in acres.	Cost.
		RS.		RS.		RS.
Regular plantations	12,234	5,83,537	11,786	5,85,219	− 448	+ 1,682
Cultural operations	2,536 and 100 miles of channel banks.	28,460	2,972 and 100 miles of channel banks.	32,661	+ 436	+ 4,201
Topes	18,252	2,59,914	18,909	2,93,313	+ 657	+ 33,399
Total ..	33,022 and 100 miles of channel banks.	8,71,911	33,667 and 100 miles of channel banks.	9,11,193	+ 645	+ 39,282

But the actual cost incurred during the year was—

	RS.
On regular plantations	29,275
On cultural operations	3,634
On topes	7,921
Total ...	40,830

which agrees with the amount adjusted during the year under A-VIII (*d*) of Form No. 64.

Every endeavour is being made to check and rectify the figures of areas, expenditure and receipts under plantations, cultural operations and topes, but it is no easy matter especially with regard to the two latter, and our officers find it difficult to spare time for it.

The Conservator invited special attention to the subject of topes during his inspections in Salem, North Arcot and Chingleput, but the Board of Revenue do not approve of village heads being held responsible for their safe keeping, although it was formerly considered part of their duty.

(*g*) *Works of Improvement.*

36. Works of improvement not treated of under other sections of this chapter may be said to be fencing and such like, of which there was not much done during the year. So far as they can be gathered from the district reports, the following may be entered under this head :—

	Cost. RS.
Chingleput—	
Fencing a portion of the Kambakam reserve, 1½ miles	3
North Coimbatore—	
Fencing round with Mulkiluvai (*Balsamodendron Berrii*) the greater portion of block No. 1 of Arachalur fuel and fodder reserves ...	194
Repairing fence round No. 2 block in do. do. ..	104
Eradicating a portion of the prickly-pear in do. do. ...	79
Tinnevelly—	
Fencing round the Kongaroyakurchi, Reserved Land 1,520 yards ...	65
Total ...	445

(*h*) *Experiments and Exotic Trees.*

37. Experiments with exotics, &c., have been continued as usual. The results are on the whole satisfactory. The several experiments are detailed in Appendix A in alphabetical order in order to facilitate future reference.

I. Communications and Buildings.

38. The following statement exhibits the "roads and bridges" constructed and repaired during the year, together with their cost :—

District.	New works.	Number of miles.	Cost.	Repairs.	Number of miles.	Cost.
			RS.			RS.
Chingleput ..	....	..	..	Kambakam hill road ..	..	352
North Arcot ..	A road from Kámesvaram to forests in Gudiyátam taluk and another from Mámandur to Tirupati in Chandragiri taluk.	8 6½	640 640	....	30	283
South Arcot ..	Experimental single wooden rail tramway in Shonangkuppam plantation.	¾	63	....	..	..
	Tenmalai ghât trace put into road form and rocks blasted and removed.	1½	300	Old trace repaired.	¾	98
North Coimbatore.	....	..	..	....	..	180
South Coimbatore.	A road near Kolikuttu Kanavoy in No. IV, Udamalpet range.	½	212	Repair and improvement of the timber slip from Vendamudi.	..	72
				Repairs to 53 bridges on three roads.	..	53
				Repairs and upkeep of other roads.	13½	365
Madura ..	New roads and inspection paths in Parappar block.	..	55	Improving and repairing the Alagarmalai road.	..	130
	Completion of the road connecting Pumbarai road with Gundan Shola, &c.	..	160	Improving the road above the acacia plantation for conveying wood to the wire rope shoot.	..	28
	Wire rope shoot for conveying wood.	..	225			
Tinnevelly ..	Kotanteri forest road, Vásudevanallúr hills, reëleared and cut.	4	1,061	Kotanteri road	3½	74
				Pápanásam road	21½	609
				Kalakód	8	170
	Kudayanallur bridle road cut.	6	1,453	Inspection paths	20	250
	Cart road from Pachimadankovil.	3½	794	Foot of Alwárkurchi hills to the watershed boundary	3½	285
	Inspection path at a cart road gradient from Kariar to Kannikuttı odai.	5	176	Easing gradients and bridge repairing, &c.	..	262
Malabar (Wynaad and Pálghat.)	Inspection path in Chenatnair.	8½	174	....	7½	39
	Temporary road in Chodlet and 31 bridges, &c.	18	120	....	..	..
Malabar (Nilambúr) ..	Cart road and compartment roads at Panangodo.	1	162	....	..	30
	Total ..	62½	6,244	Total ..	108½	3,280

The total expenditure, viz., Rs. 9,524, exceeds that of the previous year by Rs. 2,500. The increase is due to greater progress made during the year in the construction of new roads, especially in North Arcot and Tinnevelly.

39. *Buildings.*—It will be seen from the subjoined statement that better progress was made during the year chiefly in North Arcot and South Coimbatore in the constructions of new buildings, the total expenditure under A. VII (*b*) exceeding that of the previous year by Rs. 1,370 :—

District.	Construction of new buildings.	Cost.	Repairs to existing buildings.	Cost.
		RS.		RS.
Chingleput ..	2 Tannah sheds	31	2 Rest-houses and 4 tannah sheds ..	77
	1 Rest-house at Vardaiyapalaiyam; foundation laid and wood purchased.	23		
North Arcot ..	1 Ranger's office at Chandragiri ..	1,050	6 Rest-houses and 5 tannah sheds, &c.	888
South Arcot ..	....	..	12 Rest-houses and out-houses ..	239

District.	Construction of new buildings.	Cost.	Repairs to existing buildings.	Cost.
		RS.		RS.
Salem	....	..	1 Forest bungalow, 1 shed and 6 Range offices.	735
Trichinopoly ..	1 Range office at Jayankondasholapuram.	150	5 Forest bungalows in the Kulitalai range.	90
Tanjore	1 Forester's house at Tirumalaivasal.	250		
North Coimbatore ..	3 Rest-houses and 6 tannah huts ..	1,140	3 Rest-houses, 1 Rangers' house, 1 Forester's house, 2 Ranger's offices and one sandalwood store, &c.	783
South Coimbatore ..	1 Bungalow for the District Forest-officer and 1 Ranger's house both at Mount Stuart.	1,842	4 Bungalows, 1 Ranger's house, 1 tannah shed and a few huts.	234
	1 Bungalow for the District Forest-officer and 1 Ranger's house both at Setumadai.	2,955		
	1 Guard's house at Setumadai.	129		
	1 Depôt shed at Coimbatore re-erected	250		
Madura	3 Temporary rest-houses	179	3 Rest-houses, 4 Guards' huts and 2 tannah huts and certain other repairs.	89
	1 Permanent rest-house at Parappar extended and improved.	580		
	1 Depôt-keeper's hut and store-room at Kodaikánal.	102		
	1 Cooly hut and one tannah hut ..	30		
Tinnevelly ..	1 Guard's house and one tannah ..	51	1 Sub-Assistant's house, 4 Rangers' houses, 15 Guards' and 35 tannah huts.	599
Malabar (Wynaad and Pálghat.)	Construction of Forest-officers' quarters, kitchen, stables and verandah.	1,188		
	Temporary buildings including out-houses "Dindimal" and "Kuppadi."	296		
	1 Forester's serambi	254		
	1 Elephant's shed and Panthi ..	244		
	1 Mahout lines	150		
	Karimalai rest-house	158		
	1 Rest-house at Doni	75	3 Inspection sheds	120
Malabar (Nilambúr) ..	1 Tiled inspection shed at Panangode.	191		
	1 Thatched elephant shed at Nilambúr.	141		
South Canara ..	....	..	....	135
	Total ..	11,454	Total ..	3,989

Greater progress was expected during the year both under roads and buildings, but owing to the attention of the District and Range officers having been almost entirely absorbed in the selection, settlement and demarcation of reserved forests, the constant change of subordinates in Wynaad and the non-acquisition of the proposed site for the Forest-officer's bungalow in Nilambúr, about Rs. 6,900 of the budget grant under the former head and about Rs. 8,400 under the latter remained unexpended at close of the year chiefly in South Arcot, Madura, Wynaad and Nilambúr.

Immediately forest settlement and demarcation are completed, *e.g.*, in South Coimbatore, we must set to work in earnest in improving the communications so as to be able to work the forests in an economical and rational manner.

CHAPTER V.

YIELD AND WORKING.

Section 1—Departmental Operations.

40. The remarks in paragraph 57 of the last annual report may be taken to apply to the timber and stock returns of this year also. The Code will have to be revised

so that the annual returns may be checked and compiled in the same office as the monthly ones.

41. The number of trees felled by Government agency (Form No. 68) was as follows as compared with that felled in 1885-86 :—

—	1885-86	1886-87.	Difference.
	NO.	NO.	
Teak	1,873	2,756	+ 883
Blackwood	79	797	+ 718
Vengai and other miscellaneous timbers	9,186	4,556	— 4,630
Sandalwood	40	48	+ 8
Total ..	11,178	8,157	— 3,021

The increase in teak and blackwood occurred in Malabar (Wynaad and Pálghat) and the decrease in miscellaneous timbers was under casuarina fellings in Chingleput.

42. The outturn of trees felled and the quantities of other produce, &c., collected by Government agency during the year (Form No. 69) were as follows as compared with those of 1885-86 :—

—	1885-86.	1886-87.	Difference.
	C. FT.	C. FT.	C. FT
Teak	83,713	105,797	+ 22,084
Blackwood	5,730	19,613	+ 13,883
Vengai and other miscellaneous timbers.	57,660	51,522	— 6,138
Red sanders	Tons 274	Tons 50	Tons — 224
Sandalwood	,, 24	,, 11	,, — 13
Firewood and charcoal	10,133	12,251	+ 2118
Bamboos	No. 64,228	Tons 17 / No. 39,861	Tons + 17 / No. — 24,367
Minor produce	Tons 68	Tons 443	Tons + 375
or approximately in Tons ..	13,800	16,600	+ 2,800

43. The collections in 1886-87 are thus considerably in excess of those for 1885-86. The quantities of timber, &c., received in and issued from sale depôts during the year (Form No. 70) were as follows, as compared with those so removed and issued in 1885-86 :—

Description.	Collected during		Issued during		Difference in	
	1885-86.	1886-87.	1885-86.	1886-87.	Collection.	Issue.
Teak .. .. .. C. ft.	16,393	22,599	17,895	20,714	+ 5,606	+ 2,819
Teak saplings .. .. No.	53,641	49,966	54,361	285	— 3,675	— 54,076
Blackwood .. .. .. C. ft.	685	913	2,472	2,973	+ 228	+ 501
Vengai and other miscellaneous timber .. .. ,,	46,278	22,383 / NO. 4,419	44,022	50,077	—23,895 / NO. 4,419	+ 6,055
Red sanders .. .. Tons.	121	50	217	50	— 71	— 167
Sandalwood .. .. ,,	23	11	60	14	— 12	— 46
Firewood .. .. .. ,,	1,683	1,517	1,641	1,430	— 166	— 211
Bamboos .. .. .. No.	20,170	33,998	20,275	26,212	+ 13,828	+ 5,937
Minor produce .. .. Tons.	14	27	25	26	+ 13	+ 1
or approximately in Tons ..	6,800	6,100	7,000	3,200	— 700	— 3,800

NOTE.—The excess under "issues" over "collection" was from stock of previous years.

The results of the year are on the whole satisfactory. The transport of timber to sale depôts, especially in South Coimbatore, is often difficult to manage and much attention on the part of the officers concerned and a large outlay of money are required.

44. Form No. 71 exhibits the particulars of sales (*a*) direct from the forest, and (*b*) from the sale depôts, confiscated wood being shown according to its disposal. The

results of the sales during the year in money value were, as compared with those of the preceding year, as follows :—

Budget head of receipts.	1885-86.			1886-87.			Difference.		
	Sold from forests.	Sold from depôts.	Total.	Sold from forests.	Sold from depôts.	Total.	Sold from forests.	Sold from depôts.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I (a) Timber	39,186	95,496	1,34,682	29,263	31,927	61,190	—9,923	—63,569	—73,492
I (b) Firewood and charcoal ..	23,810	6,967	30,777	24,896	6,160	31,056	+1,086	—807	+279
I (c) Bamboos	476	668	1,144	2,171	357	2,528	+1,695	—311	+1,384
I (d) Sandalwood	2,300	13,972	16,272	..	5,057	5,057	—2,300	—8,915	—11,215
I (e) Grass and other minor produce.	13,264	44	13,308	25,193	7,256	32,449	+11,929	+7,212	+19,141
III Confiscated wood	4,837	974	5,811	2,737	160	2,897	—2,100	—814	—2,914
Total ..	83,873	1,18,121	2,01,994	84,260	50,917	1,35,177	+387	—67,204	—66,817

The result of sales in the *forest* during the year exhibits scarcely any difference as compared with the previous year, but the sales from *depôts* are less than those of 1885-86 by about Rs. 67,000 due chiefly to the non-disposal of a large stock of teak saplings in Malabar (Nilambúr), where prices offered were below the average, and the District Forest-officer suspecting combination amongst the dealers, declined to accept them.

No timber was supplied to the Public Works Department during the year for reasons given in paragraph 60 of last year's report.

1,089 tons of fuel in South Arcot and 2,654 tons in Trichinopoly were supplied to the South Indian Railway and 106 tons in Salem to the Madras Railway in addition to the supplies to the Madras Railway Company referred to under section 2.

45. Subjoined abstract shows in one view the quantities of timber and other produce collected and sold from forests and sale depôts during the year :—

—	Teak.	Teak saplings.	Rose-wood or black-wood.	Vengai and other miscellaneous timbers.	Red sanders.	Sandal-wood.	Fire-wood and charcoal.	Bamboos.	Minor produce.
	C. FT.	NO.	C. FT.	C. FT.	TONS.	TONS	TONS.	NO.	TONS.
Balance on 1st April 1886 ..	48,256	7,225	5,612	*53,848	..	15	1,240	19,977	2
Collected during 1886-87 ..	105,797	66,810	19,613	51,522	50	11	12,250	39,861	443
Excess found on re-measurement on receipt at depôt	13,000							Tons 17	
Total ..	167,053	74,035	25,225	105,370	50	26	13,490	59,838	445
								Tons 17	
Sold in forests	14,161	8,207	7,779	31,555	..	..	10,850	22,968	416
								Tons 16	
Sold from depôts	16,249	26	1,450	49,904	50	14	1,383	26,212	26
								lbs. 1,344	
Otherwise disposed of † ..	7,288	..	2,225	1,409	..	..	53	2,545	..
								Ton 1	
Total ..	37,698	8,233	11,454	82,868	50	14	12,286	51,725	442
								Tons 17	
Balance in stock on 31st March 1887	129,355	65,802	13,771	22,502	..	12	1,204	No. 8,113	3

* 27,445 cubic feet added by measurement of logs entered in previous year's returns only in numbers.
† Written off; used departmentally, &c.

NOTE.—It is impossible to exhibit saplings, red sanders, sandalwood, bamboos and minor produce in cubic feet as desired by the Government of India. Saplings and poles must be exhibited by numbers, and the rest by weight.

46. The value of stock in sale depôts (Form No. 73-A) at the beginning of the year was Rs. 16,019 and that at its close Rs. 64,927 showing an increase in value of stock of timber of Rs. 48,908 at close of the year. The increase is mainly in the Kallai depôt where the teak saplings remain unsold for the reason given in paragraph 44.

47. Form No. 73 B. shows the value of live stock, stores, tools and plant; but as this is the first year that a statement in this form is submitted, the details for certain

districts are incomplete. The value of stock at the beginning of the year, so far as could be ascertained, was Rs. 34,206 and that at close of the year Rs. 41,971, thus showing an increase in value of Rs. 7,765 during the year.

Section 2—Removal of produce by purchasers.

48. The total quantities of timber and other produce cut, collected and removed from the forests by purchasers during the year (Form No. 72) were as follows, as compared with those so cut, collected and removed in 1885-86:—

—	1885-86.	1886-87.	Difference.
	C. FT.	C. FT.	C. FT.
Miscellaneous timbers	854,302	1,051,972	+ 197,670
Do.	No. 1,126	No. 490	— 636
Firewood and charcoal	Tons 132,580	Tons 182,263	+ 49,683
Bamboos	,, 25,747	,, 29,058	+ 3,311
Do.	No. 67,865	No. 77,113	+ 9,248
Minor produce	Tons 3,598	Tons 10,160	+ 6,562 or
Approximately in Tons ..	179,500	243,000	+ 63,500

A districtwar abstract will be found at the end of Form No. 72.

The quantities removed are considerably in excess of those of the preceding years, as is the revenue realized under all sub-heads except II (*b*) under which there is a small decrease of Rs. 333. The figures are as follows:—

—	1885-86.	1886-87.	Difference.
	RS.	RS.	RS.
II (*a*) Timber	72,864	1,00,217	+ 27,353
II (*b*) Firewood and charcoal ..	1,65,332	1,64,999	— 333
II (*c*) Bamboos	57,395	68,196	+ 10,801
II (*d*) Grazing and fodder grass ..	7,914	35,665	+ 27,751
II (*e*) Other minor produce ..	1,35,443	1,71,038	+ 35,595
Total ..	4,38,948	5,40,115	+ 1,01,167

All the districts except South Canara contributed towards the above increase. The largest revenue (Rs. 1,13,500) under this system was realized in Salem; North Arcot comes next with a revenue of Rs. 92,900 and North Coimbatore stands third with Rs. 74,500. In Madura Rs. 59,100 was collected and in the remaining districts the collections ranged from Rs. 1,125 in Nilambúr to Rs. 44,100 in Tinnevelly.

In North Arcot 10,683 tons of junglewood and 301½ tons of casuarina wood fuel were supplied to the Madras Railway through contractors or middlemen, realizing Rs. 15,753 and Rs. 1,357, respectively.

1,734 tons of engine fuel were supplied in Salem realizing Rs. 1,832. This was probably small lighting wood. In addition to these quantities, considerable supplies were, it is believed, made both in Salem and South Coimbatore, through contractors, which do not appear separately in the district returns as they ought.

Section 3—Free grants of forest produce.

49. Removals of timber, &c., during the year on free permits issued by Forest-officers were as follows:—

—	Timber.	Firewood.	Bamboos.	Minor produce.
	C. FT.	TONS.	TONS.	TONS.
Chingleput	1,220	..	6½	4
South Arcot	4,454	5	..	..
Salem	1,130	5	12	..
Madura	330	..	..	..
Total ..	* 7,134	10	18½	4

* Equal to about 143 tons.

The grants were chiefly for building purposes and their money value may be estimated at Rs. 3,000. In North Arcot the District Forest-officer gave a few permits for ass and head-load of fuel and bamboos to certain "Koravars" whom the Superintendent of Police was encouraging to settle down. A few permits were also given to ryots reported to be too poor to purchase building materials, but the quantities are not stated.

In North Coimbatore arrangements were made, with the Collector's approval, for the free removal of timber, bamboos, &c., from the reserved lands, by hill and *adivaram* villagers for agricultural purposes.

No free permits were issued in Tinnevelly, but removals of head-loads of dead-wood for *bonâ fide* domestic consumption were permitted on the lower slopes of the ghâts (reserved lands) as usual.

In a few instances in South Canara free permits for small quantities of forest produce were issued for either a charitable or a religious purpose, but the quantities are not stated.

50. It should be clearly understood that, although the quantity and value of free grants appears so small, the bulk of the junglewood and firewood required by the people for domestic and agricultural purposes is obtained free of payment and without any permit from unreserved lands. It is impossible to frame estimates of any accuracy of the quantities so removed and their value, but they must be very large, especially if we add the value of grass, leaves for manure, &c., &c.

CHAPTER VI.

Financial Results.

51. The revenue and expenditure of the Circle as per Form No. 64 compare with the results of 1885-86 as follows :—

—	Revenue.	Expenditure.			Surplus.
		A.	B.	Total.	
	RS.	RS.	RS.	RS.	RS.
1885-86	6,52,318	2,34,006	3,00,608	5,34,614	+ 1,17,704
1886-87	6,94,535	3,80,192	3,40,529	7,20,721	— 26,186
Difference ..	+ 42,217	— 1,46,186	— 39,921	— 1,86,107	..

52. The variations under revenue in the several districts were in round numbers as follows, as compared with the former year :—

	RS.		RS.
North Arcot	+ 4,000	Salem	— 6,000
South do.	+ 8,500	Wynaad and Pálghat ...	— 12,000
Trichinopoly	+ 16,000	Nilambúr	— 63,000
Tanjore	+ 1,500		
North Coimbatore ...	+ 28,000		
South do. ...	+ 10,000		
Madura	+ 24,000		
Tinnevelly	+ 14,000		
South Canara	+ 17,000		
Total ...	+ 1,23,000	Total...	— 81,000
	Net result ...	+ 42,000	

In South Arcot, Trichinopoly, South Coimbatore, Tinnevelly and South Canara, the increase accrued both under departmental operations and removals by purchasers. In the remaining districts it was principally under the latter. The decrease in Salem may be said to be purely nominal and attributable to a considerable old stock of sandalwood having been sold in 1885-86 which raised the revenue of that year.

The decrease in Wynaad is due to constant changes in and neglect of work by the local executive, absence of the District Forest-officer on medical certificate during the last quarter of the year, and default of contractors to remove and pay for the logs on the plea that they were badly prepared.

In Nilambúr the decrease is attributable solely to the apparent absence of a good demand for teak saplings and the consequent non disposal of a large stock. The District Forest-officer thinks there was a combination amongst dealers to keep down prices, but on the other hand there is little doubt that the larger saplings which we are now placing on the market, and for which we expect higher rates, are not so much in demand as the smaller ones, being neither "timber" nor "poles."

Be this as it may, it was thought better to make a stand for the usual rates which once reduced might not recover, and the market for the season was lost.

53. The revenue as compared with the regular estimate for the year exhibits important variations in the undermentioned districts :—

	RS.		RS.
North Arcot	+ 7,000	South Arcot	— 15,000
Trichinopoly	+ 6,000	Salem	— 12,500
North Coimbatore ...	+ 12,000	South Coimbatore ...	— 22,000
Madura	+ 10,000	Wynaad and Pálghat ...	— 26,500
Tinnevelly	+ 7,000	Nilambúr	— 38,000
		South Canara	— 22,000
Total ...	+ 42,000	Total ...	— 1,36,000
	Net result ...	— 94,000	

The increases in the several districts and the decrease in both divisions of Malabar are due to causes already stated in the preceding paragraph.

The decrease in South Arcot occurs both under departmental sales and removals by purchasers. In the former case it is attributed by the District Forest-officer chiefly to the fact that selection and settlement of reserved forests engaged the whole attention of Range-officers, &c., and that little time was left to arrange departmental operations better. In the latter it is chiefly due to the Treasury Department not having credited to this department about Rs. 12,000 on account of tree rents. This should really still be done under the spirit of the Government Orders subsequently issued on a reference through this office.

The decrease in Salem occurs under removals by purchasers and is accounted for by non-collection of grazing fees, the restrictions placed upon railway fuel cutting pending surveys, division of reserves into blocks and compartments and framing of working plans, and also to the writing off the account, as irrecoverable, of a sum of Rs. 3,800 representing arrears of rent on fruit and palmyra trees expected to be realized during the year.

The decrease in South Coimbatore is owing to the difficulty experienced in carting the budgeted quantity of teak timber to sale depôts, the working season having been unusually feverish owing to the partial failure of north-east monsoon. The teak forests in this division cannot be worked satisfactorily and with any advantage unless early arrangements are made to lay out a tramway line to ensure getting out the timber regularly and at a reduced cost.

The District Forest-officer rightly points out that we can then supply the Public Works Department, the Railway and other departments at considerably lower rates than those obtaining in the local market. Large quantities of timbers are available both in the Government and leased forests, whilst private forests in and around the district are being fast denuded. The department will soon be in a position to monopolize the whole timber supply, and the revenue in South Coimbatore alone will, in the District Forest-officer's opinion, amount to Rs. 2,00,000 under proper management and systematic working.

In South Canara the decrease occurred chiefly under departmental sales of timber and minor produce and is stated to be due to default of timber contractors, slack demand, a short crop of certain minor products and want of demand for myrabolams, &c.

The Conservator considers that the explanations from South Arcot, Wynaad and Pálghat, and Nilambúr justify the short revenue which, although much to be regretted,

is attributable to circumstances over which the District Forest-officers had little or no control.

He regrets that he cannot regard the short revenue in Salem, South Coimbatore and South Canara in the same light. The non-levying of grazing fees, short supplies to the Railway Company, difficulties in bringing timber to market, absence of demand and short crops of minor produce could and ought to have been foreseen when the regular estimates were framed by the district officers in the month of July and figures revised accordingly. The Conservator will be glad if the Board and Government will kindly impress on Collectors and District Forest-officers the necessity of being more careful in future to justify the confidence which he must naturally place in their figures which are presumed to be based on carefully-matured and moderate estimates.

54. *Expenditure.*—The variations under A, "Conservancy and Works" as compared with 1885-86 are as under:—

		RS.
I.—Timber, &c., removed by Government agency ...	+	33,000
II.—Timber, &c., removed by purchasers	+	10,000
V.—Rent of leased forests	+	73,000
VII.—Communications and buildings	+	4,000
VIII.—Demarcation, improvements and extension of forests	+	26,000
Total ...	+	1,46,000

The increase under I is due to larger collection of timbers, &c., both in the forests and sale depôts as shown in Chapter V, and that under II to increased commissions, &c., on larger receipts *per contra.* Under V it is due to the payment of Rs. 75,000 to the Nambidi of Kolangód on the revision of the Tekadi forest lease as stated in paragraph 15 of Chapter III. The increase under VII has already been explained in paragraphs 40 and 41 of Chapter IV, while that under VIII is attributable to greater progress made during the year in demarcation, acquisition of lands, surveys, planting and cultural operations and fire-protection as fully explained elsewhere.

55. The expenditure under A. compares as follows with the revised budget estimate for the year:—

	RS.	RS.
Under A.I	— 21,000	
A.II	— 6,500	
A.V	...	+ 74,500
A.VII	— 16,000	
A.VIII	— 27,000	
Total ...	— 70,500	+ 74,500
Net result +	4,000	

The short expenditure under A.I was chiefly caused by the non-collection of the greater portion of the budgeted quantity of red sanders roots in Chingleput and North Arcot for want of sufficient labor and the carting of timber in South Coimbatore and South Canara having been considerably less than was anticipated owing to default on the part of contractors.

Under A.II the short expenditure is not very large, and it is difficult to estimate accurately under this head, as both the revenue and expenditure depend on the demands of consumers and purchasers. The decrease under A. VII has already been explained in paragraphs 40 and 41 of Chapter IV.

Under A.VIII the savings were chiefly under demarcation and are attributable to the constitution of reserved forests not having progressed sufficiently to be followed by demarcation work owing to delay in the publication of final notifications, &c. There was considerable short expenditure under surveys due to delay in arranging for special forest surveys.

There was also short expenditure under plantations, fire-protection and other works due to certain extension of plantation in Tanjore not having been undertaken, and the full complement of fire-patrols and temporary watchers, &c., budgeted for (*e.g.*, in North Arcot) not having been entertained.

56. The expenditure under B. Establishment as compared with that of 1885-86 exhibits an increase of Rs. 10,000 during the year chiefly caused by the permanent and temporary promotions of several superior officers in the Circle to higher grades and the appointment of an additional Special Forest Settlement-officer. As compared with the revised budget estimate for the year, the expenditure under B. shows a small saving of Rs. 5,500, of which Rs. 4,000 will have to be transferred to A, "Conservancy and Works" to cover the excess outlay thereunder.

57. The net result is a deficit of Rs. 26,000 instead of an estimated surplus of Rs. 66,000 which was, however, to be devoted to the advance to the Kolangód Nambidi, and so result in an equilibrium. If this large payment (Rs. 75,000) which was not foreseen when the regular estimates were framed and is really capital expenditure had not been made, there would have been a surplus of Rs. 50,000 in round figures or, had the revenue come up to the estimates, of nearly 1½ lakhs. As it is, if the increase of Rs. 49,000 in the value of stock of timber and other forest produce (Form No. 73 A.) and of Rs. 8,000 value of live stock, &c., (Form No. 73 B.) be taken into account, there will be a profit on the year's working of about Rs. 31,000.

58. The financial results of (*a*) departmental working, (*b*) removals under permit system and (*c*) expenditure on protection and improvement of forests as shown in Form No. 67 are calculated on the same principles as last year, viz., those adopted by the Board when they administered the forests in 1872—75. The following is an abstract:—

Timber, &c., removed by Government Agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
RS. 1,43,201	RS. 1,72,460	RS. 5,51,334	RS. 2,71,423	RS. 2,76,838*	RS. 6,94,535	RS. 7,20,721

* Includes Rs. 75,000 paid to Nambidi of Kolangód for Tokadi lease.

It will be observed that the charges under Departmental working, including the proportion of B. charges calculated as prescribed, exceed the receipts, which is due to the considerable stock of timber, &c., remaining unsold and to increased expenditure under head VI, Purchase of live stock.

59. *Outstandings and liabilities on account of contractors and disbursers* (*Form No.* 65).—The amount due to the department at the beginning of the year was Rs. 26,392. During the year the payments to disbursers and contractors, &c., amounted to Rs. 4,07,166 and recoveries in value of work, &c., to Rs. 4,05,655. The amount which remained outstanding and unadjusted at close of the year was Rs. 27,903, which is not unsatisfactory considering the heavy outlay during the year.

60. *Outstandings on account of revenue* (*Form No.* 66).—These were Rs. 33,301 at the commencement of the year. The amount of sales, &c., during the year was Rs. 6,91,840 and the amount actually collected Rs. 6,94,535 which leaves Rs. 30,606 outstanding at close of the year. The major portion of this amount (Rs. 20,400) is represented by irrecoverable arrears of rent of fruit trees, &c., a legacy from the late Jungle Conservancy Fund in North Coimbatore, the writing off of which amount does not appear to have been sanctioned during the year, though application is said to have been made to the Board by the Collector.

CHAPTER VII.

General Remarks.

61. *Superior and Subordinate Staff.*—The paucity of officers in the superior staff has been a source of constant trouble, and much difficulty has been experienced in arranging for the duties of absentees on leave, &c. One or more superior officers are needed for special duty in connection with forest surveys and working plans, but the

Conservator cannot see his way to find them. The one trained officer sent out by the Secretary of State in 1886 was posted to the Northern Circle, whose wants were felt to be even greater than those of the Southern Circle. Suggestions are now before Government for the filling up of the existing vacancy in the first grade of Deputy Conservators and the strengthening of the superior staff generally. Great difficulty is still experienced in finding suitable men for appointment as Foresters, Rangers and Sub-Assistant Conservators.

62. *Forest Settlement-officers.*—Mr. Wolfe-Murray, C.S., Special Forest Settlement-officer, was replaced by Mr. A. M. Jones, Deputy Collector, in January last. The latter has been at work in Salem, North and South Arcot, while Deputy Collector Mr. Pinto has had charge of the forest settlement in Chingleput and Tinnevelly and latterly in Madura also, as the Divisional Revenue-officer (Sub-Collector) could not complete the work in that district. The settlement in Tanjore and Trichinopoly has also been allotted to Mr. Jones. Mr. Castle-stuart Stuart, C.S., completed the forest settlements in the Wynaad, but appeals have been lodged against some of his decisions which await disposal by the District Court. The settlement of Kanot in the Kóttayam taluk was transferred to the Sub-Collector of Malabar, who completed the inquiry into claims before the close of the official year. South Canara is the only district where settlement has been left in the hands of Divisional-officers of the Revenue Department, and work has not progressed very satisfactorily in that district. The progress made by special officers in other districts is fully explained in paragraph 6 of Chapter II.

63. *Forest Conservancy in Tanjore.*—Selection of areas to be reserved and their settlement necessitated the appointment of a District Forest-officer for this district, and it was deemed best to place the District Forest-officer, Trichinopoly (Mr. Stanbrough), in charge in addition to his other duties.

64. *Forest School.*—One Ranger 4th grade, two Rangers 5th grade, and two Foresters 2nd grade, sent to the Forest School, Dehra Dun, in the preceding year completed the course of training successfully and returned from the school in March last with Forest Ranger's certificate The Ranger 4th grade, has been promoted to the 2nd grade and the two 5th-grade men to the 4th grade, whilst the two Foresters have been appointed Rangers 5th grade, on probation.

During the year under report Mr. Marshall, Probationary Sub-Assistant Conservator, one Ranger and four Foresters were sent to the school and their progress is reported to be satisfactory. The course of training at the school was revised and made more practical at the conference of Forest-officers held there in October last.

65. *Rules under Act V of* 1882 (*The Madras Forest Act*).—Certain amendments proposed in the rules under section 63 of the Act to better regulate the procedure of Forest Settlement-officers were approved by Government and duly notified. The timber transit rules sanctioned for certain districts are reported to have worked smoothly so far as they have been enforced. The areas to which they are to apply in future have been scheduled, but the Government have ordered the rules generally to be revised and supplied.

The republication of the Act and rules in the shape of a handy manual was taken in hand and the work nearly completed. Several amendments have been made in the Departmental Code.

66. *The Giant Riding Saw Machine.*—This continues to work satisfactorily in South Arcot where, in the case of long casuarina poles of medium girth, it is found to work easier and turn out more work than the country saw; the latter, however, answers better when crooked small wood such as babul, &c., has to be converted.

67. *Service Books.*—So far as can be gathered from the reports of the district officers, the orders regarding correct maintenance of service books of subordinates have been duly attended to in the great majority of cases.

68. *Maps.*—Much has already been said on this subject in Chapter III. The District Forest-officer, Salem, writes—"Mounted book-form maps of each taluk, with all the different classes of reserves and the names of important hills and streams marked in, have now been supplied to each Range-officer and are most useful. Endeavours are being made to get the Survey office to supply us with copies of them."

In Malabar (Wynaad) maps of the Begur, Kanot, Wálayár and Chenatnair forests have been prepared and furnished by the Survey Department, but the District Forest-officer reports that they are not quite complete and that some additions and alterations will have to be made.

69. *Boundary disputes.*—The appeal suit in the matter of Kalrayan boundary dispute in South Arcot was decided by the District Judge in favor of Government.

The Solandampalli boundary dispute in the Tirupatúr Taluk of the Salem District was also decided in favor of Government.

It has been resolved by Government to prefer an appeal to the Privy Council against the decision of the High Court in the matter of the Singampatti forest suit in Tinnevelly, and the Government Pleader is preparing the appeal.

70. *The Malabar Forest Charge.*—The forest charges in the Malabar District have been re-arranged (with effect from 1st April last) into North and South Malabar, the former to include the Government forests in the Malabar-Wynaad, Kanot and neighbourhood, the head-quarters being at *Manantoddy*, and the latter the Nilambúr forest, the Kallai depôt, and the Pálghat range which embraces all Government forests in the Pálghat and Walawanád taluks, the head-quarter being at *Nilambúr*.

71. *Elephant-catching operations.*—At the instance of the Conservator the Government were pleased to cancel their order prohibiting further captures of wild elephants.

In Malabar (Wynaad) 4 wild elephants were captured during the year and all successfully trained. One (a young one) died from natural causes, one was sent to Nilambúr and the remaining two retained in Wynaad.

The District Forest-officer reports that the cow elephant captured in 1885 has done good work and is very docile.

In Malabar (Nilambúr) 2 young tuskers were captured during the year in the Nellikutta reserved forests. They are doing well. The 2 cow elephants caught in the preceding year were valued and the proprietor's share of one-fourth, which amounted to Rs. 626, was duly paid and adjusted in accordance with the terms of the agreement.

72. *The valuation of standing stock of timber and other forest produce on dharkasted lands.*—That such valuation should invariably be made by forest officials, or that definite rules or instructions should be laid down for the guidance of Revenue-officers is proved by a case in Trichinopoly which happened during the year.

The standing stock on a certain tank bed which was to be alienated for cultivation purposes had been actually disposed of by auction by the Revenue-officers for Rs. 350. The matter attracted the District Forest-officer's attention who at once communicated with the Collector and pointed out that, in his opinion, the stock was worth about Rs. 3,000. The Collector thereupon cancelled the sale and directed the District Forest-officer to have the stock cleared and sold departmentally. Accordingly, before the close of the year, about 700 tons of railway and 42 tons of ordinary fuel had been cut and sold for Rs. 2,957. The District Forest-officer states that about 300 tons remain to be disposed of, so that his original estimate will be fully justified.

73. *Health of Establishment.*—The health of the officers of the superior staff continued to be fairly good, only Mr. Morgan having to avail himself of privilege leave on medical certificate towards the close of the year owing to repeated attacks of Wynaad fever and complication resulting from it.

The subordinate staff again suffered severely. Messrs. Ebor Hardie and Howell, Sub-Assistant Conservators, had to take leave on medical certificate from Tinnevelly and Wynaad, the latter having been seriously ill.

Three Rangers and three Foresters besides several Forest Guards and Watchers died; also several Mahouts and coolies in the Wynaad where even the Kurumbers suffered severely from fever, small-pox and dysentery. In all districts except Chingleput, South Arcot, Tanjore and Tinnevelly, fever was very prevalent amongst the departmental establishments and contractors' work-people.

The Javadi Hills in North Arcot were specially feverish.

74. *Conduct of the Establishment.*—All the officers of the superior staff and most of the Sub-Assistant Conservators and Range-officers worked well and it would be invidious to particularize.

One Ranger, Qadir Husain Sahib, was prosecuted and found guilty of criminal breach of trust. One permit-issuing officer in Salem and another in Trichinopoly was found guilty of criminal misappropriation of Government money. One Forester in Madura absconded, and another in the same district is under trial in connection with a forest theft case.

75. *Administration of the department generally.*—The remarks in last year's report apply equally this year.

The Conservator's office was removed to Chepauk towards the close of the year, but the accommodation is inadequate and inconveniently arranged, and the move has in no way reduced the pressure of correspondence which is mainly due to the system of multiple control.

Proposals are before Government which, it is hoped, if adopted, may have the effect of improving the organization and permitting Forest-officers of all classes to devote more time to their proper professional duties in the forest.

MADRAS,
28th July 1887.

APPENDIX A.

DETAILS OF EXPERIMENTS WITH EXOTICS DURING AND UP TO THE CLOSE OF THE OFFICIAL YEAR 1886-87.

Dates.—16½ lb. of seed of *Phœnix dactylifera* from Busrah were distributed to eight districts or divisions in this Circle. Judging from the results reported from all divisions (except North Arcot and South Coimbatore), it would appear that the attempt to raise date-palms from seed has not proved very successful so far, except perhaps in Nilambúr, where about 200 seeds germinated, of which 170 plants are still alive in the nursery. In North Coimbatore not a single seed germinated, while in Chingleput only 25 germinated out of 100 put down. Of these, 24 died and only one survives, being now 6 inches in height. A few seeds germinated in South Arcot, and the surviving plants look healthy. Only eight plants in Trichinopoly and nineteen in Tinnevelly have been successfully raised. The failure in most cases is attributed to the seed being old and insect-eaten.

Mr. M. R. Weld, C.S., Acting Collector, Kistna, in reporting the failure of the seed received from the Conservator, Northern Circle, observed that when at Mangalore in 1869, he sowed stones of Arabian dates which he had bought in the bazaar round his house, and that had come up well when he left the place. He tried the same thing since at several places on the East Coast, but without success. He thought the dates obtained at Mangalore were fresher than those obtained elsewhere, and suggested a reference to the Collector of South Canara as to the present condition of the seedlings he left growing at Mangalore. The result of the reference was that the Collector was unable to find any date-trees in the compound of the house referred to by Mr. Weld. The cause of the disappearance of the plants is not known.

Mr. Hadfield, District Forest-officer, Nilambúr, reports that he bought lately some date-fruits at Calicut and sowed some of the seeds to see if they would germinate, and somewhat to his surprise found nearly all of them came up.

Date offsets.—Five hundred and seventeen of these offsets from Busrah were received and distributed in this Circle as follows :—

—	Number sent out and put down.	Number existing.	Casualties.
Chingleput	113	109	4
North Arcot	100	95	5
South Arcot	100	95	"A few." Say 5
Trichinopoly	124	120	4
Tinnevelly	74	74	..
Malabar (Wynaad)	6	6	..
Total ..	517	499	18

It is gratifying to note that the casualties have been so low as 3·5 per cent.

The plants in North Arcot are growing well and those in South Arcot are doing fairly, whilst in Chingleput they are not in a thriving condition. The plants in Trichinopoly show good growth and are healthy, and their lower fronds average a length of 5 feet. In Tinnevelly all have struck root and some of the larger ones have since been transferred permanently to suitable localities. In Wynaad two are beginning to throw up fronds and all are expected to grow in time, though the climate appears to be a little too moist for them. Generally speaking, the results are fairly satisfactory and encouraging, but it is too early now to pronounce any definite opinion.

In Tanjore about 446 Persian dates were planted in the Vettangudi forest in the year 1880, of which only 175 palms now remain. Their general appearance is not encouraging, the reason assigned being the unsuitable soil and the ravages of a species of beetle which the District Forest-officer says was detected in the act of destroying one of the palms. Besides, the larvæ of the beetle were discovered in numbers adhering to the junction of the leaves with the stem.

During the year 91 offsets were separated from the above palms, 20 of which were sent to South Arcot and 71 planted in the Vettangudi forest. Of the latter 8 died, 21 were sickly and likely to die, and the rest were doing well at the close of the year.

In "Meltottam" block in the same district 66 plants were alive at the beginning of the year, of which 5 died and the rest were in good condition at the close of the year. Nine offsets were detached from the above palms, of which 6 were sent to South Arcot and 3 planted in Meltottam itself. Seven of the trees flowered in February last and ever since well laden with ripening fruits. The District Forest-officer writes that none of the trees which blossomed in 1885-86 and in previous years are among those which blossomed in 1886-87 It is found difficult to safeguard the fruits from rats and squirrels, but the District Forest-officer is trying to do so by inserting them in strong bamboo baskets.

Most of the offsets sent to South Arcot were planted in 3 feet cube pits at 9 feet apart each way. Three of the plants have thrown out new leaves, while others, although alive, have shown no new growth.

These experiments, though interesting, are expensive and rather a heavy tax on our officers whilst engaged in settlement and protection of the forests. The Conservator deprecates their being carried on at present on any scale, except where there is a competent resident agency as at Nilambúr. The table-lands of Mysore, the Ceded districts and the Deccan will probably be found better suited to the vigorous growth of the date-palm than the low-lying deltas of most of the Southern districts.

Divi-divi.—These plants are thriving in North Coimbatore at Talamalai and Bailur. In Madura there are 190 plants in the Navinipatti garden 12 to 15 feet high and 2 to 3 inches in circumference at the stem. Of these, 60 trees flowered in November 1886 and bore fruit. Specimen seeds were collected in February last and kept in the garden. In the Wynaad and Pálghat division the plants put out at Wálayár in 1885 have grown but slowly, and only 19 are now alive averaging about 4 feet in height.

Ensilage or Silos.—Agreeably to G.O., dated 9th July 1886, No. 573, communicated with Board's Proceedings, dated 7th August, No. 1779, 13 silos were constructed during the year (*i.e.*, 2 in North Arcot, 7 in Salem and 4 in South Canara), but none of them has yet been opened nor the results reported.

Eucalyptus.—The Eucalyptus plants at Palmanér in North Arcot are doing well, while the experiments in Salem are not satisfactory owing, it is alleged, to want of leisure and attention on the part of Range-officers. A few plants are, however, now thriving in the Námakal, Tirupatúr and Hosúr ranges. In North Coimbatore a few *Eucalyptus citriodora* of those raised at Talamalai from seed sown in 1884 appear healthy and are about 16 feet in height. In Tinnevelly the two species, viz., *Eucalyptus rostrata* and *citriodora* continue to do well in the ghât forests at elevations varying from 800 to 3,000 feet. In Malabar (Wynaad) the *Eucalyptus rostrata* has proved a complete failure, all the plants dying out. *Eucalyptus globulus* is unsuited to the climate and elevation (the latter being insufficient) and looks very poor and weedy. The five trees of *Eucalyptus sologna* and *Eucalyptus citriodora* grow well and appear thoroughly adapted to the climate, but unfortunately a beetle has discovered and attacked them in thousands. Mr. Morgan writes: "This small beetle bores a hole 4 inches deep into the trunk and there deposits its ova. A considerable discharge of a highly saccharine and mucilaginous fluid appeared from each hole and the trees looked sickly, but they have recovered." It is hoped that the attack will not be renewed this year. If it is, Mr. Morgan considers the trees must perish.

Fourcroya.—There are 400 plants in the Navinipatti garden in Madura. They have thrown out on an average 20 leaves and attained a height of 3 to 4 feet. 115 of them have been removed and transplanted to both sides of the footpath in the garden. All the plants are very healthy and flourishing. They evince greater luxuriance in the shade than in the open.

Giant Bamboos, &c.—Of the four species of bamboos in the botanical garden at Manantoddy in Wynaad, *Dendrocalamus Brandisii* or *Bambusa* has shown the most surprising growth, last year's shoots being over 30 feet in height. *Dendrocalamus Longispathus* has also grown vigorously and the best clumps, of which there are eight, average 20 feet in height. All the clumps in the nursery were taken up, divided and planted out on the western side of the garden. This has naturally temporarily retarded their growth and they only average some 10 feet in height.

Cephalostachyum Pergracile has been the slowest grower, last year's shoots averaging only 15 feet in height.

30 lb. of *Beesha Travancorica* bamboo seeds were obtained from Pálghat and put down in the nurseries. All germinated and the plants are now 3 feet in height.

The Burma bamboos in Nilambúr (*Arundinarea Brandinii, Dendrocalamus Longispathus, &c.*) are all growing well. The large clump of "yellow bamboos" and the four cuttings raised by Mr. Hadfield are doing fairly well. The attempt to grow "Kakoah bamboos" both in Nilambúr and Trichinopoly has proved fruitless owing to the worthlessness of the seed which had lost all its vitality.

The District Forest-officer, South Canara, started a small nursery for cuttings of giant bamboos which proved tolerably successful.

Ipecacuanha (*Cephalis*).—There are twenty plants now in Nilambúr doing very well. One plant considered as dead in 1885-86 has come up again from the roots.

Kigilia Pinnata.—The District Forest-officer, South Canara, took with him in September last a fruit from the Horticultural Gardens. It gave him several hundred seeds, nearly all

of which germinated some after 12 days' sowing, then a few at a time continuously for four months and one only a few weeks back. The seedlings look hardy, and though they were not always properly attended to, 200 were in a flourishing condition at the close of the year. Some of them measured one foot high.

Lancewood (*Oxandra virgata*).—Twenty-five plants were sent from the Agri-Horticultural Gardens, Madras, to Nilambúr in February last, but they were not planted out during the year. Those similarly sent to Wynaad in pots are reported to be thriving.

Mahogany.—In South Arcot the seedlings raised from seed in 1885-86 and transplanted are doing fairly well. In Madura there are 70 plants thriving well, besides 185 plants at the Navinipatti garden which also grow very luxuriantly and average 3 feet in height. They are impatient of much shade. In Tinnevelly about 1,555 plants have been put out in 6½ acres and are doing well on the whole. Some casualties have, of course, occurred.

In Chingleput 3 lbs. of seed were sown during the year, but only a few germinated. The young plants were transplanted into baskets. They were growing well at the close of the year. In Trichinopoly 500 healthy plants were raised during the year from 2 lbs. of seed and transplanted in pots. They averaged from 9 to 12 inches in height. The Padugai (river bank) soil is found exceedingly suitable for these plants. A species of grasshopper caused some damage by destroying the terminal shoots, but the plants since recovered and were doing well at the close of the year.

Of the 350 plants obtained from the Horticultural Gardens, Madras, in May 1886, 299 were doing well and averaged 2½ feet in height at the close of the year.

In Tanjore 25 plants survive out of 71 put out in 1881 and are in a fairly good condition. Of 168 seeds put down at Vettangudi in 1885-86, 84 germinated, of which 9 died and 75 turned out to be vigorous plants; 30 of these were given to the Executive Engineer and the rest planted. Again 1,183 seeds were put down in the Northern Range, but only 48 germinated owing to some defect in the seed.

In Malabar (Wynaad and Pálghat) 43 plants were permanently planted out in 1883-84 and 55 in 1885-86. These plants (with the exception of one self-sown, which escaped the borer and is now 20 feet high and 10″ in girth) have progressed poorly owing to the constant attacks of the borer.

Two pounds containing 2,400 seeds were put down, one-half at Kanot and other half at the Botanical Garden: 800 seeds germinated at Kanot, but most of the plants were destroyed: 375 germinated at the Botanical Garden, of which 278 are now alive, the rest having been destroyed by *gryllus*. These plants now average 11 inches in height and look healthy.

In Nilambúr the largest mahogany tree planted in 1873 measured 70 feet in height, 56 inches at base and 44 inches at 5 feet from base, having grown 1 foot in height, 4 inches in circumference at the base and 3 inches at 5 feet high during the year. The borer was not so prevalent as in former years and had not attacked the new planting amongst the teak. Mr. Hadfield identifies the grub with that found on the brinjal (*Solanum melongena*).

Manilla hemp (*Musa textalis*).—In South Arcot six plants received last year through the Collector are doing fairly well, the largest 13 feet high and stem 20″ girth. Three have offsets nearly fit to transplant. In Trichinopoly, of the 50 plants put out in 1885-86, 45 show vigorous growth and average a height of between 8 to 10 feet. In Tinnevelly 44 plants show a vigorous and healthy growth out of 60 put out in 1885-86, 16 having died.

In Malabar (Wynaad) the Manilla hemp continues to flourish and throw out suckers plentifully. It has twice fruited. It may be regarded a complete success in Wynaad, the climate of which appears to be very suitable for it. Mr. Morgan considers that thousands of acres might be planted with it in Wynaad, but it is not known whether the fibre produced will be as good as in its native habitat.

Maipak (*Evodia Meliæfolia*).—Half a pound of seed sent by the Conservator in 1885-86 was sown in nursery beds, but not a single seed germinated.

Olea Europea.—A few seeds were received from the Director of Revenue Settlement and Agriculture at the beginning of the year, but those put down both in North Coimbatore and Tinnevelly have failed to germinate.

Peltophorum ferrugineum.—In Tanjore 29 seedlings were planted at Méltottam in the Vettangudi forest in 1883, of which 24 look healthy and 7 flowered for the first time during the year.

Pithecolobium saman.—In North Arcot some thousands of plants were raised from seeds gathered from the trees at Vellore. The young plants put down at Tiruvalam and Kilminnel are doing well. In Malabar (Wynaad) the tree in the swamp has grown very much, especially in girth. Those on the ridge are in a poor and gravelly soil and are bad specimens. There are 142 of them in all.

Rubber experiments.—In South Arcot Ceara rubber does not thrive although it bears fruits and yields sap in small quantities. In Malabar (Wynaad) of the three plants of *Hevea Brazeliensis* received in 1885-86, from Mr. Ferguson, two are growing rather slowly, but look healthy. The third was bored out and died. The *Castilloa elastica* plant eaten down by stray cattle in the preceding year also died. In Nilambúr the *Castilloa*, *Hevea Brazeliensis* and *Ceara*

are all doing well. Mr. Hadfield had to thin out some of the Cearas during the year. The largest eight trees that he tapped severely both trunks and roots yielded only one pound of rubber which he considers to be small quantity considering the age of the trees (6 years). The one plant of *Landolphia Florida* was broken off at 12 feet from the ground by the branch of a tree which fell over it, but has thrown out two shoots from where it broke off and that the length of the climber from the ground to the top of the new shoot is now 14½ feet.

The nurseries in the Botanical Gardens at Manantoddy are fully stocked with a valuable and healthy assortment of plants of various kinds.

Many tons of sugar-cane were cut and supplied to the Government elephants from the sugar-cane swamp. Rats do considerable damage to the canes.

Annual Form No. 59-A.

Forest Department, Madras, Southern Circle.

Area of Reserved Forests, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput..	Saidápet	Tandrai	664	..	..	..	664	..	G.O., Nos. 96, 96 A., dated 6th Feb. 1886.	
	Chingleput	Tirukalikundram ..	697	..	..	..	697	..	G.O., No. 1602 Rev., dated 5th Sept. 1885.	
		Uragadam	540	..	..	..	540	..		
		Madayatur	697	..	..	..	697	..		
		Vandalúr	..	..	3,207	..	3,207	..	G.O., Nos. 358, 358 A., Rev., dated 21st May 1886.	Added from 59-C.
	Sativedu	Kambakam	14,967	..	..	* 16	14,951	..	G.O., Nos. 96, 96 A., dated 6th Feb. 1886. Board's Procs., No. 460/Forest 81, dated 19th Feb. 1886.	
		Ambakam	..	..	5,259	..	5,259	..	G.O., Nos. 929, 929 A. Rev., dated 27th Oct. 1886.	Added from 59-C.
		Sativedu	..	..	6,859	..	6,859	..		
		Aradur	..	..	2,680	..	2,680	..		
		Kadur	..	..	2,494	..	2,494	..		
		Ugumudi	..	..	2,884	..	2,884	..		
		Total ..	17,565	27·45	23,383	16	40,932	63·96		
North Arcot.	Vellore .. Pólúr taluk ..	Carnatic Ghur.. ..	7,069·17	..	..	..	7,069·17	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated and surveyed.
		Ammerdi Plantation ..	25	..	..	..	25	..		Demarcated and fenced.
		Ambúr Fuel Reserve ..	3,840	..	..	..	3,840	..		
		Palamadi	6,400	..	..	..	6,400	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
		Ambúr Plantation ..	5	..	..	* ..	5	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated and fenced.
	Chandragiri. Chandragiri taluk	Napier Reserve ..	8,772	..	..	..	8,772	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated, surveyed, and fenced.
		Mámandúr do. ..	1,776	..	..	..	1,776	..		
		Chamala do. ..	9,600	..	..	..	9,600	..		Demarcated.
		Panapak do. ..	6,400	..	..	..	6,400	..		
		Podipatla bail	2,560	..	..	..	2,560	..		
		Gazerlamandiyam ..	250	..	..	..	250	..		Partly surveyed, fenced, and not planted.

* Excluded owing to re-adjustment of boundary between Government and Kalastri Zemine.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.		Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot —*cont.*	Chandragiri	Chittoor taluk ..	Paradarami	15,241·83	..	..	..	15,241·83	..	No. 89, F.S.G.G., dated 8th Feb. 1887.	Demarcated and surveyed.
	Palmanér ..	Gudiyátam taluk.	Ambúr drug	5,760	..	..	..	5,760	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	
		Palmanér taluk.	Musalimadugu ..	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	
			Basvireddipalle ..	10,240	..	..	..	10,240	..	No. 275, F.S.G.G., dated 2nd Oct. 1885.	
			Peddur	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	Fenced.
			Palmanér	2	..	..	..	2	..		
			Nagamangalam ..	31	..	..	..	31	..		
			Piduguvaripalle ..	20	..	..	..	20	..		
			Venkatagirikota ..	4	..	..	..	4	..		
			Baireddipalle	4	..	..	..	4	..		
		Palmanér and Gudiyátam taluks.	Mortana	16,000	..	..	..	16,000	..		
			Naikaneri	6,400	..	..	..	6,400	..		Demarcated.
			Taruvallam Plantations.	435	..	..	..	435	..		
		Gudiyátam ..	Virinjipuram do. ..	260	..	..	..	260	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated, surveyed, and fenced.
			Chainur do. ..	130	..	..	..	130	..		
			Amundi	160	..	..	..	160	..		Demarcated and fenced.
			Tandrayagunta ..	2	..	..	..	2	..		
	Head quarters.	Arcot taluk ..	Punganúr	3,743·37	..	..	..	3,743·37	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
			Kilminnel	111·54	..	* 38·46	..	150	..	No. 241, F.S.G.G., dated 18th Dec. 1884.	Demarcated, surveyed, and fenced.
			Vannivedu	30	..	..	..	30	..	No. 158, F.S.G.G., dated 16th June 1885.	Surveyed and fenced
			Arkónam Sub-Magistrate's compound.	5	..	..	..	5	..		Surveyed and fenced.
			Arkónam Plantation ..	37	..	..	..	37	..		....
			Total ..	124,513·91	194·55	38·46	..	124,552·37	194·61		
South Arcot ..	I. Tiruvannámalai		Annamalai forest ..	1,760	..	..	..	1,760	..	No. 151, F.S.G.G., dated 2nd June 1885.	Notified under section 25.
			Total ..	1,760	2·75	..	..	1,760	2·75		

* Part once washed away by flood, but since recovered.

Area of Reserved Forests, 1886-87—*continued.*

District	Range	Name of Forest	Area on 1st April 1886		Added during the year	Excluded or transferred to other heads	Area on 31st March 1887		Number and date of notification of addition or transfer	Remarks
			Acres	Equivalent in square miles	Acres	Acres.	Acres	Equivalent in square miles		
Salem	Salem	Bodamalai	..	..	5,600	..	5,600	..	From 1st Jan 1887, F S G G, dated 30th Nov 1886	
		Atur ghât	..	..	3,142	..	3,142	..	From 1st March 1887, No 9, F S G G, dated 11th Jan 1887	
		Kutar	..	..	3,795	..	3,795	..	From 31st March 1887	
		Nartenchedu extension	..	..	1,088	..	1,088	..	From 31st March 1887, No 84 F S G G, dated 8th Feb 1887	
		Yerimalai	..	..	3,520	..	† 3,520	..	From 31st March 1887, No 78, F S G G, dated 8th Feb 1887	
		Pillapallikombai new	..	..	2,080	..	‡ 2,080	..	From 31st March 1887, No. 82, F S G G., dated 8th Feb 1887	
		Atur ghat extension	..	..	544	..	544	..	From 31st March 1887, No 81, F S G G., dated 8th Feb 1887	
		Karuvattuparai	..	..	1,800	..	§ 1,800	..	From 31st March 1887 No. 80, F S G G, dated 8th Feb. 1887	
	Atúr	Belur	..	..	6,880	..	6,880	..	From 1st June 1887	Not published
		Nagur	..	..	3,757	..	3,757	..	From 31st March 1887, No. 83, F S G.G, dated 8th Feb 1887	
	Námakal	Jambutu	..	..	2,617	..	2,617	..	From 31st March 1887	Not published.
	Atur and Námakal	Karavallikombai	..	..	8,755	..	8,755	..	From 1st Feb 1887	
	Utenkarai	Pilapadi	..	..	8,000	..	8,000	..	From 31st March 1887, No 86, F S G G, dated 8th Feb 1887	
		Tumbakal	..	..	7,757	..	7,757	..	From 1st Feb 1887	
		Chitteri	..	..	3,917	..	3,917	..	From 31st March 1887, No 79, F S G G, dated 8th Feb 1887	
		Kottapatti	..	..	8,960	..	8,960	..	From 15th March 1887, No 67, F S G G, dated 1st Feb 1887	
		Puvampatti	..	..	4,672	..	4,672	..	From 1st Feb 1887	
	Tirupatúr	Mangalam	..	..	6,080	..	6,080	..	From 1st Dec 1886	
		Nagalotu	..	..	2,560	..	‖ 2,560	..		
		Mambakam	..	..	9,370	..	9,370	..	From 1st Jan 1887	Not published
		Punkulum	..	..	7,834	..	7,834	..	From 1st Dec 1886.	
		Madakadapa	..	..	2,048	..	2,048	..	From 1st Jan 1887	Not published.
		Jalárpet	..	..	1,216	..	1,216	..	From 1st Feb 1887	
		Narasingapuram	..	..	2,048	..	2,048	..		
		Kalarapatti	..	..	2,016	..	2,016	..	From 1st Dec 1886	
		Total	..	..	* 110,056	..	110,056	171 96		

* Transferred from 52-C

† Of which Kariyappenkombai specially protected block comprises 265 acres.

‡ Of which 991 acres are under special protection

§ Do 837 do. do do.

‖ Of which the Kottur specially protected block comprises 1,213 acres.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Trichinopoly.	Kulitalai	Elamanur	117·10	..	..	..	117·10	..	B.P., F. No. 297, dated 23rd Sept. 1884.	
		Kulitalai	77·18	..	..	..	77·18	..		
		Manatattai	44·86	..	..	..	44·86	..		
		Lálápet	213	..	..	..	213	..		
		Sittalavoi	160·32	..	..	..	160·32	..		
		Kattalai	74·35	..	..	..	74·35	..		
		Tenmalai	640	..	..	..	640	..	B.P., No. 3782, dated 14th Dec. 1883.	
		Minnakaradu	1,000	..	..	* 902	98	..		
		Panjantanji	1,000	..	† 543	..	1,543	..		
		Pettavoitalai	..	..	137	..	137	..	No. 10, F.S.G.G., dated 11th Jan. 1887, part I, pages 13 and 14; B.P., F. No. 38, dated 26th Jan. 1887.	Transferred from 59-C.
	Musiri	Sengattupatti	..	..	3,000	..	‡ 3,000	..	No. 87, F.S.G.G., dated 8th Feb. 1887, part I., page 96. B.P., F. No. 113, dated 2nd March 1887.	Transferred from 59-C.
		Melur	..	..	3,000	..	‡ 3,000	..		
	Perambalúr	Mamadodai	..	..	4,000	..	‡ 4,000	..	No. 85, F.S.G.G., dated 8th Feb. 1887, part I, page 94. B.P., F. No. 113, dated 2nd March 1887.	
		Salamatti	..	..	7,000	..	‡ 7,000	..		
		Total ..	3,326·81	5·20	17,680	902	20,104·81	31·41		
Tanjore ..	....	....	..	..	Nil	..	..	..		Sandal wood reserves demarcated, surveyed, and mapped. Notified under section 25. These 4 tracts will be merged hereafter in larger areas of reserved forests.
North Coimbatore.	Kollegál	Jadatalayhulla ..	361·01	..	..	..	361·01	..	No. 217, F.S.G.G., dated 21st Dec. 1883.	
		Udayárpálaiyam ..	296·63	..	..	..	296·63	..		
		Bilur	1,186·39	..	..	..	1,186·39	..		
		Germalam	519·78	..	..	..	519·78	..		
	Satyamangalam	Vellamundi	12,800	..	..	..	12,800	..	No. 174, F.S.G.G., dated 7th July 1885.	Notified under section 16.
		Eastern slopes of the Nílgiris.	..	..	46,000	..	48,000	..	No. 87, F.S.G.G., dated 17th March 1886, page 193, and No. 143, F.S.G.G., dated 28th April 1886, page 409.	Notified under Section 16. Transferred from 59-C.
		Total ..	15,163·81	23·70	48,000	..	63,163·81	98·69		

* Found deficient when surveyed. † Found excess when surveyed. ‡ Approximate area.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Coimbatore.	Tunakadavu	Anaimalais, No. I ..	52,480	..	..	..	52,480	..		
	Ponachi	Do. ,, II ..	3,140	..	..	..	3,140	..		
	Udamalpet	Do. ,, III ..	47,360	..	..	..	47,360	..		
	Polláchi and Udamalpet ..	Do. do. ..	133,120	..	..	..	133,120	..		
	Bolampatti	Bolampatti block, No. I	47,680	..	..	..	47,680	..		
		Do. ,, II								
		Do. ,, III								
		Tadágam block ,, IV	30,720	..	..	..	30,720	..		
	Mettupálaiyam	Gopaneri do. ,, V	38,200	..	..	..	38,200	..	No. 309, F.S.G.G., dated 4th November 1885.	
		Kempampalaiyam ,, VI								
		Nellitorai ,, VII								
		Odantorai ,, VIII	5,880	..	..	..	5,880	..		
		Modur block ,, IX	3,600	..	..	..	3,600	..		
		Total ..	362,180	565·91	..	..	362,180	565·91		
Madura ..	No. I, Periyakulam ..	Vannatiparai	27,481·6	..	..	..	27,481·6	..		
		Suranganar	3,616	..	..	..	3,616	..		
		Mela Gudalur ..	1,280	..	..	..	1,280	..		
		Machakal	2,560	..	..	..	2,560	..		
		Kutinachiyar	..	..	640	..	640	..	No. 160, F.S.G.G., dated 5th May 1886.	Notified under section 16. Transferred from 59-C.
		Pandaratorai	..	..	300	..	300	..		
		Sengalvarai Ar ..	5,209·6	..	..	..	5,209·6	..		
		Pambar	4,755·2	..	..	..	4,755·2	..		
		Tambirankanal ..	250	..	..	..	250	..		
		Jungle Conservancy.								
		Virapandi	2	..	..	..	2	..	....	Reserved forest and tope.
		Tamaraikulum ..	1	..	..	..	1	..	....	
		Mélamangalam ..	1·5	..	..	..	1·5	..	....	
		Vadipatti	1	..	..	..	1	..	....	
		Ganguvarpatti ..	4	..	..	..	4	..	....	
		Allinagaram	2	..	..	..	2	..	....	
		Mottanutu	2	..	..	..	2	..	....	
	No. II, Kodaikánal ..	Pumbarai and Vilpatti valley.	13,587·2	..	..	..	13,587·2	..		
		Kudirai Ar	10,060·8	..	..	..	10,060·8	..		

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II, Kodaikánal—*cont.* ..	Kukal	9,644·8	..	..	..	9,644·8	..		
		Marudanadiyar ..	6,528	..	..	..	6,528	..		
		Pambukal Ar	800	..	..	..	800	..		
		Siruvattukadu ..	2,279·2	..	..	..	2,279·2	..		
		Kaniyankadu	3,001·6	..	..	..	3,001·6	..		
		Vennilai	4,800	..	..	..	4,800	..		
		Ariyanutukanal ..	64	..	..	..	64	..		
		Kumangovaimalaikadu..	80	..	..	..	80	..		
		Peterankanal	80	..	..	..	80	..		
		Varattarkanal ..	..	..	* 200	..	200	..		
		Iruttarkanal	..	..	* 100	..	100	..	No. 103.	
		Nochiarkadu	..	..	* 200	..	200	..		
		Talaiar Andarkovil kadu.	..	..	* 30	..	30	..		
		Talaiar kadu	..	..	* 150	..	150	..	No. 160 F.S.G.G., dated 5th May 1886.	Notified under section 16.
		Kadamaravu	..	..	* 50	..	50	..	No. 103.	
		Vilamkombai	1,600	..	..	..	1,600	..		
		Parappar	42	..	..	..	42	..	....	Reserved forest and plantation.
		Sholas on the Lower Palnis— (a) Perumalmalai Shola .. (b) Togavarai Shola.. (c) Sirutarkanal .. (d) Arankanal .. (e) Kadavu Shola .. Sholas on the Upper Palnis— (a) Tiger Shola .. (b) Parappar Shola .. (c) Kodaikanal .. (d) Pannitutamkanal. (e) Gundan and Manavan Sholas .. (f) Gundar Shola .. (g) Sandanam Shola. (h) Fort Hamilton .. (i) Mariyan Shola ..	2,316	..	..	..	2,316	..		

* Transferred from 59-C.

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II, Kodaikánal—*cont.*	*Plantations.*								
		Eucalyptus	16·62	..	..	..	16·62	..	....	Reserved forest and plantation.
		Acacia	14	..	..	..	14	..	....	
		Velamkombai	54·14	..	..	..	54·14	..	....	
		Jungle Conservancy.								
		Kodaikanal Settlement..	3	..	..	..	3	..	....	
		Pumbarai	6	..	..	..	6	..	....	
		Virupatchi	7·15	..	..	..	7·15	..	....	Reserved forest and tope.
		Sivagiripatti	1·15	..	..	..	1·15	..	....	
		Sirumalai	25,529·6	..	..	..	25,529·6	..		
		Mudimalai	6,086·4	..	..	..	6,086·4	..		
		Akkammakaradu ..	1,600	..	..	..	1,600	..		
		Kappuravallikuttu ..	2,560	..	..	..	2,560	..		
		Tenkal	3,200	..	..	..	3,200	..		
		Sundamalai	2,240	..	..	..	2,240	..		
		Tannirkaradu	1,920	..	..	..	1,920	..		
		Kadavakurchi ..	5,120	..	..	..	5,120	..		
		Sengattampatti ..	4,480	..	..	..	4,480	..		
	No. III, Dindigul	*Jungle Conservancy.*								
		Dindigul at the junction of Trichinopoly and Karur roads ..	1	..	..	..	1	..		
		Dindigul Munsif's Court.	·59	..	..	..	·59	..		
		Do. race course ..	4	..	..	..	4	..		
		Kovilur	1·19	..	..	..	1·19	..		
		Do.	·15	..	..	..	·15	..		
		Gudalur	1·18	..	..	..	1·18	..		
		Guvakapatti	130·52	..	..	..	130·52	..		
		Jungle Conservancy.								
		Mudugamalai								
		Vellamalai	2,700	..	..	..	2,700	..		
		Perumalmalai								
		Pillaiyarnattam hills ..								
	No. IV, Melúr	Navinipatti	12	..	..	.	12	..	....	Reserved forest and tope.
		Alagarmalai	13,036	..	..	..	13,036	..		
		Tenapudupettai ..	126·78	..	..	..	126·78	..	....	Reserved forest and tope.
		Sakimangalam ..	467·94	..	..	..	467·94	..	....	
		Nagamalai	2,356	..	..	..	2,356	..		
		Vikramangalam ..	10,240	..	..	..	10,240	..		

Area of Reserved Forests, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. IV, Melúr—*continued* ..	Tenur	11·78	..	..	..	11·78	..	....	Reserved forest and tope.
		Tovariman	21	..	..	..	21	..	....	
		Total ..	181,997·69	284·37	1,670	..	183,667·69	286·98		
Tinnevelly ..	Nangunéri	Reserve No. I ..	31,532·80	..	..	..	31,532·80	..	Constituted reserved forest under section 25, G.O., No. 257, dated 11th February 1881.	
	Ambásamudram	Do. „ II ..	91,008	..	..	..	91,008	..		
	Tenkási	Do. „ III ..	18,009·60	..	..	..	18,009·60	..		
	Sankaranainárkovil	Do. „ IV ..	19,737·60	..	..	..	19,737·60	..		
	Srivilliputur	Do. „ V ..	23,270 40	..	..	..	23,270·40	..		
		Total ..	183,558·40	286·81	..	..	183,558 40	286·81		
Malabar (Wynaad and Pálghat).	Wynaad	Kuppadi	7,337·44	..	..	..	7,337·44	..	No. 112, F.S.G.G., dated 21st April 1885, part I.	The areas were ascertained by actual survey.
		Kurchiyat	18,053·86	..	..	..	18,053·86	..	No. 160, F.S.G.G., dated 23rd June 1885, part I.	
		Rampur	18,854·67	..	..	..	18,854·67	..	No. 191, F.S.G.G., dated 24th July 1885, part I.	
		Nulpoya	3,613·28	..	..	..	3,613·28	..	....	
		Mavanhulla	12,576·64	..	..	..	12,576 64	..	....	
		Begur	15,366	..	..	..	15,366	..	....	
	Pálghat	Walayar	3,017	..	..	..	3,017	..	No. 178, F.S.G.G., dated 6th November 1883, part I.	
		Total ..	78,818·89	123·15	..	..	78,818·89	123·15		
Malar (Nilambúr).	Nilambúr	Ernád taluk—								
		Karimpoya Reserve ..	3,955·28	..	..	..	3,955·28	..		
		Amarampalaiyam Reserve.	468·04	..	..	..	468·04	..		
		Chatambarai Reserve ..	699·52	..	..	..	699·52	..		
		Nellikutta do. ..	1,824·13	..	..	..	1,824·13	..		
		Total ..	6,946·97	10·85	..	..	6,946·97	10·85		
South Canara.	Kandapúr	No. I Sabladi ..	208	..	..	..	208	..		
	Udipi	„ II Ajjarkad ..	160	..	..	..	160	..		
		„ III Pillarkhan ..	320	..	..	..	320	..		
	Mangalore	Nos. IV and V, Poitage Kayar Palla.	96	..	..	..	96	..		
		No. VI, Chembuguddi ..	75	..	..	..	75	..		
		„ VII, Kuttiyar ..	25	..	..	..	25	..		
		Total ..	884	1·38	..	..	884	1·38		
		Grand Total ..	976,715·48	1,526·12	* 200,827·46	* 918	1,176,624·94	1,838·47		

* These figures differ from those given in paragraph 4 of the Report as under "excluded during the year" in the latter the net deficit in area by actual survey in Trichinopoly was taken into account, whereas in this Form + 543 and — 902 acres are entered separately in their respective columns.

Annual Form No. 59-B.

Forest Department, Madras, Southern Circle.

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882.

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Tiruvallúr	Namalur	938	..	..	..	938	..		
		Kallanur	482	..	..	482	..	..		
		Chengugram	327	..	..	327	..	..		
		Pelvakam	436	..	..	..	436	..		
		Semai	331	..	..	331	..	..		
		Sunkarai	630	..	..	630	..	..		
		Mukrambakam	590	..	..	590	..	..		
		Kolatur	248	..	..	..	248	..		
		Palavakam	436	..	..	436	..	..		
		Irukolu	156	..	..	..	156	..		
		Total ..	4,574	7·15	..	* 2,796	1,778	2·78		
North Arcot ..	..	....	..	..	Nil	..	..	..		
South Arcot.	No. I, Tiruvannámalai.	Annamalai kasba hill and neighbourhood.	2,080	..	..	..	2,080	..		
		Tandrampet	11,500	..	..	..	11,500	..		
		Kadambai	1,000	..	..	..	1,000	..		
		Tachampet including Atipakam ..	1,000	..	..	..	1,000	..		
	No. II, Tindivanam ..	Annamangalam	250	..	..	..	250	..		
		Vallanad Sevur	1,115	..	..	..	1,115	..		
		Nangilikondan	50	..	..	..	50	..		
		Natamangalam	30	..	..	..	30	..		
		Vilukam	100	..	..	..	100	..		
		Olakur	300	..	..	..	300	..		
		Roshanai	50	..	..	..	50	..		
		Edayalam	400	..	..	..	400	..		
		Eriyanur	95	..	..	..	95	..		
		Jaggampet	108	..	..	..	108	..		
		Senalur	150	..	..	..	150	..		
		Mannur	50	..	..	..	50	..		
		Nemmalai	300	..	..	..	300	..		
		Endur	50	..	..	..	50	..		

* Of this 235 acres were set apart for the use of villagers' privileges and the rest transferred to 59-C, under Palavakam block.

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*cont.*	No. II, Tindivanam—*cont.*	Bramhadesam	50	..	..	..	50	..		
		Vannipper	50	..	..	..	50	..		
		Nadukuppum to Bramhadesam ..	400	..	..	..	400	..		
		Kandadu	370	..	..	..	370	..		
		Omapper	20	..	..	..	20	..		
		Mailum	265	..	..	..	265	..		
		Tandavasamudram	3,000	..	..	..	3,000	..		
		Matur	540	..	..	..	540	..		
		Turinjikadu	1,104	..	..	..	1,104	..		
		Odayanatam and Kadayam ..	1,000	..	..	..	1,000	..		
		Vanur 1st bit	200	..	..	..	200	..		
		Vanur 2nd bit	150	..	..	..	150	..		
		Kalikovil	200	..	..	..	200	..		
		Chengadu	100	..	..	..	100	..		
		Vakkur	200	..	..	..	200	..		
		Kappianur	545	..	..	..	545	..		
		Mutampalaiyam	50	..	..	..	50	..		
		Navamal Marudur	80	..	..	..	80	..		
		Aliyur	70	..	..	..	70	..		
		Neliyanur	70	..	..	..	70	..		
		Valavanur	344	..	..	..	344	..		
	No. III, Villupuram.	Pakam	350	..	..	..	350	..		
		Sorapur	50	..	..	..	50	..		
		Marudur	70	..	..	..	70	..		
		Villupuram kasba tank	100	..	..	..	100	..		
		Valutareddi	130	..	..	..	130	..		
		Kandampakam	60	..	..	..	60	..		
		Olaikai	50	..	..	..	50	..		
		Kappur	50	..	..	..	50	..		
		Kondangi	100	..	..	..	100	..		
		Nannadu	100	..	..	..	100	..		
		Perumbakam	100	..	..	..	100	..		
		Devanampet	100	..	..	..	100	..		
		Tiruvamatur	28	..	..	..	28	..		
		Tennamadevi	51	..	..	..	51	..		
		Adanur	1,449	..	..	..	1,449	..		
		Oratur	228	..	..	..	228	..		
		Tangal	57	..	..	..	57	..		
		Karanai	200	..	..	..	200	..		
		Gundalapuliyur	844	..	..	..	844	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram—*cont.*	Siruvalai (Arumbili)	1,014	..	..	..	1,014	..		
		Vembi	256	..	..	..	256	..		
		Narasinganur	377	..	..	..	377	..		
		Vikkravandi proper	450	..	..	..	450	..		
		Do. tangal	20	..	..	..	20	..		
		Melakondai	495	..	..	..	495	..		
		Satanur	233	..	..	..	233	..		
		Panampattu	250	..	..	..	250	..		
		Saliyampalaiyam	70	..	..	..	70	..		
		Nemmalai	100	..	..	..	100	..		
		Dadavaram	200	..	..	..	200	..		
		Tiruvakkarai	1,000	..	..	..	1,000	..		
		Tuluvai	150	..	..	..	150	..		
		Ramapuram and Valicheripalaiyam ..	1,091	..	225	1,316	..	..	....	Transferred to 59-C.
		Vellakarai	1,600	..	..	1,600	..	..	....	
		Selambanadampet	651	..	..	650	1	..	....	
		Badrakotai	344	..	..	..	344	..		
		Sammattikuppum	343	..	7	350	..	..	....	Transferred to 59-C.
		Chinnadamakuppum and Kallujagai (Valudalampattu).	700	..	200	900	..	..	....	
	No. IV, Cuddalore ..	Velankuppum	1,000	..	..	1,000	..	..	....	
		Kangiruppu	2,250	..	..	2,240	10	..	....	
		Vadakuttu	3,400	..	..	3,400	..	..	....	
		Velúdayampattu	1,800	..	..	1,700	100	..	....	
		Vellayankuppum (Peramattur) ..	1,700	..	..	1,700	..	..	....	
		Kaliyankuppum	150	..	..	..	150	..		
		Kuttiyambakam	100	..	..	..	100	..		
		Siruvatur	300	..	..	..	300	..		
	No. IV, Chidambaram.	Pichavaram	2,000	..	..	..	2,000	..		
		Ramapakam	800	..	..	..	800	..		
		Kondapuram	1,200	..	..	..	1,200	..		
		Pavanji Nallur	200	..	..	..	200	..		
		Kollatankurchi	350	..	..	..	350	..		
		Nisangam	800	..	..	..	800	..		
		Adivaraganallur	1,200	..	..	..	1,200	..		
		Kolakudi (east of road)	600	..	..	..	600	..		
		Pinnalur (Walajapet tank block) ..	400	..	..	..	400	..		
		Manamadevi	150	..	..	..	150	..		
		Viranam tank	1,500	..	..	..	1,500	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V, Tirukoilúr ..	Nattamur	9,500	..	..	..	9,500	..		
		Chittamur	3,000	..	..	..	3,000	..		
		Arunavaram	2,650	..	..	..	2,650	..		
		Odíyatur	2,500	..	..	..	2,500	..		
		Endur	1,000	..	..	..	1,000	..		
		Virinjiparam and Kandachipuram ..	1,500	..	..	..	1,500	..		
		Adukam (Tandarai)	1,500	..	..	..	1,500	..		
		Atipakam	2,000	..	..	..	2,000	..		
		Sadakati	500	..	..	..	500	..		
		Swamimalai	4,000	..	..	..	4,000	..		
		Maradur	2,220	..	..	..	2,220	..		
		Ulandurpet (Pandur)	2,500	..	..	..	2,500	..		
		Edakal proper (south of road) ..	900	..	..	..	900	..		
		Edakal proper (north of road) ..	3,600	..	..	..	3,600	..		
		Alwarmalai	6,500	..	..	..	6,500	..		
		Siruvakam	1,200	..	..	..	1,200	..		
		Kutadi	2,250	..	..	..	2,250	..		
		Sidevi	3,000	..	..	..	3,000	..		
		Kunjaram	1,500	..	..	..	1,500	..		
		Kallamedu	500	..	..	..	500	..		
		Elandorai (late Ponnavalam) ..	200	..	..	..	200	..		
		Tiruvennainallur	40	..	..	..	40	..		
		Emappur	70	..	..	..	70	..		
		Siruvanur	50	..	..	..	50	..		
		Iruvelpet	50	..	..	..	50	..		
		Melmangalam	40	..	..	..	40	..		
		Mamandur	50	..	..	..	50	..		
		Gramam	40	..	..	..	40	..		
		Elandorai tank	40	..	..	..	40	..		
		Panapakam	50	..	..	..	50	..		
		Sitilingamadam	70	..	..	..	70	..		
		Marudur tank bed	60	..	..	..	60	..		
		Pudupalaiyam	40	..	..	..	40	..		
		Palayagram	65	..	..	..	65	..		
	No. VI, Kallakurchi ..	Kanakadu	1,200	..	..	..	1,200	..		
		Kadambur	100	..	..	..	100	..		
		Kaduvanur	1,500	..	..	..	1,500	..		
		Katavanaujur	800	..	..	..	800	..		
		Lalapet forest including Chittal ..	1,500	..	..	..	1,500	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles	Acres.	Acres.	Acres	Equivalent in square miles.		
South Arcot " —*contd*	No VI. Kallakurchi—*cont.*	Vengalam Pasar	3,000	..	..	..	3,000	..		
		Rishivendiyam	3,000	..	..	..	3,000	..		
		Nilamangalam	150	..	..	..	150	..		
		Emaputtur	1,000	..	..	..	1,000	..		
		Kolatur	300	..	..	..	300	..		
		Indali	1,000	..	..	..	1,000	..		
		Kotalammalai	2,500	..	..	..	2,500	..		
		Nagalur	900	..	..	..	900	..		
		Porasakurchi	750	..	..	..	750	..		
		Varansaram	450	..	..	..	450	..		
		Kuttakudi	1,000	..	..	..	1,000	..		
		Kilnariyappanur	1,500	..	..	..	1,500	..		
		Varadiyappanur	500	..	..	..	500	..		
		Chinna Salem	200	..	..	..	200	..		
		Tottapadi	250	..	..	..	250	..		
		Velankulam and Vennakuli ..	500	..	..	..	500	..		
		Semakotai and Palaiyapatnam ..	4,500	..	..	..	4,500	..		
		Pallipattu	1,500	..	..	..	1,500	..		
		Erulakurchi	300	..	..	..	300	..		
		Melakuppankulam	600	..	..	..	600	..		
		Parur	3,000	..	..	..	3,000	..		
		Narimadam	600	..	..	..	600	..		
		Ammeri	500	..	..	..	500	..		
		Kuppanatam	750	..	..	..	750	..		
		Salamangalam	200	..	..	..	200	..		
		Arasuguli	100	..	..	..	100	..		
	No VII. Vriddhachalam	Kolapakam	600	..	..	..	600	..		
		Kammapuram	600	..	..	..	600	..		
		Karmangudi	2,000	..	..	..	2,000	..		
		Narasingamangalam	1,200	..	..	..	1,200	..		
		Kotanur	2,700	..	..	..	2,700	..		
		Memadur	500	..	..	..	500	..		
		Pillur	800	..	..	..	800	..		
		Pulambadi	2,000	..	..	..	2,000	..		
		Alambalam	2,000	..	..	..	2,000	..		
		Aderi	1,000	..	..	..	1,000	..		
		Katumailur	800	..	..	..	800	..		
		Naraiyur	3,000	..	..	..	3,000	..		
		Nangur	1,800	..	..	..	1,800	..		
		Mangalam	300	..	..	..	300	..		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*contd.*	No. VII. Vriddhachalam—*contd.*	Alliyur	150	..	..	..	150	..		
		Pinjanur	200	..	..	..	200	..		
		Kasba tank	200	..	..	..	200	..		
		Total ..	167,982	262·47	432	14,856	153,558	239·93		
Salem ..	....	.....	..	..	*Nil.*	..	..	..		
Trichinopoly.	Udayárpálaiyam ..	Sripurandan	486	..	..	..	486	..		
		Nagamangalam	400	..	..	..	400	..		
		Total ..	886	1·38	..	..	886	1·38		
Tanjore ..	Northern Range ..	Vettangudi	1,900	..	..	..	1,900	..		
		Andrakadu	64	..	..	..	64	..		
		Settipallam	421	..	..	..	421	..		
		Samudraveli	270	..	..	..	270	..		
		Naluvedapadi	374	..	..	..	374	..		
		Pudugidapatam	66	..	..	..	66	..		
		Tandalai	283	..	..	..	283	..		
		Nadur	421	..	..	..	421	..		
	Southern Range ..	Ichankotai	77	..	..	..	77	..		
		Kollangorai	109	..	..	..	109	..		
		Marungulam	152	..	..	..	152	..		
		Karungulam Melpadi	389	..	..	..	389	..		
		Tachankurchi	161	..	..	..	161	..		
		Pudukudivadapadi .. .	212	..	..	..	212	..		
		Kangiyampatti	67	..	..	..	67	..		
		Kannantangudi Kilayur	232	..	..	..	232	..		
		Puvadur	205	..	..	..	205	..		
		Tirumangalakotai Vulaiyur ..	437	..	..	..	437	..		
		Do. Melaiyur ..	514	..	..	..	514	..		
		Ponnappur	181	..	..	..	181	..		
		Apparasampetai	76	..	..	..	76	..		
		Total ..	6,611	10·33	..	..	6,611	10·33		
North Coimbatore.	....	.....	..	..	*Nil.*	..	..	..		

Area of Forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in Square miles.		
South Coimbatore.	Udamalpet táluk ..	Fuel reserve of Yeliyamutur ..	·63	..	..	..	63	..		
		Do. Téndóni	60	..	..	..	60	..		
		Do. Dhalli	485	..	..	..	485	..		
		Kótamangalam	3	..	..	..	3	..		
		Chinnamalaipalaiyam	9	..	..	..	9	..		
		Gudimangalam	5	..	..	..	5	..		
		Pulamkinar	4	..	..	..	4	..		
		Pákkulum	14	..	..	..	14	..		
		Pulavadi	8	..	..	..	8	..		
		Madatukulum	3	..	..	..	3	..		
	Pollâchi taluk ..	Kanatkadavu	8	..	..	..	8	..		
		Sankarayapuram	100	..	..	..	100	..		
		Mutiyampalaiyam	4	..	..	..	4	..		
		Periyakolandai	3	..	..	..	3	..		
		Kotampatti	6	..	..	..	6	..		
	Palladam taluk ..	Arasur	58	..	..	..	58	..		
		Nachipalaiyam	63	..	..	..	63	..		
		Ammapalaiyam	61	..	..	..	61	..		
		Káduvettipalaiyam	82	..	..	..	82	..		
		Perumanallúr	81	..	..	..	81	..		
		Pudupalaiyam	66	..	..	..	66	..		
		Fuel reserve Anupatti	3	..	..	..	3	..		
		Settambalam	3	..	..	..	3	..		
		Kottanúr	3	..	..	..	3	..		
		Manickapuram	5	..	..	..	5	..		
		Tirupur	5	..	..	..	5	..		
		Vadugapalaiyam	8	..	..	..	8	..		
		Ganapadipalaiyam	5	..	..	..	5	..		
		Appanáiyakanpatti	10	..	..	..	10	..		
		Nilambur	10	..	..	..	10	..		
		Silakarakal	5	..	..	..	5	..		
		Agrarapudúr	5	..	..	..	5	..		
	Bolampatti	At the Tollgate on the road to Tadágam.	9	..	..	..	9	..		
		At the Tollgate east of Puliyankulam road.	55	..	..	..	55	..		
		Total ..	1,312	2·05	..	..	1.312	2·05		

Area of forests, 1886-87, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. V. Madura ..	104 tank beds in Tirumangalam taluk.	4,000	6 25	..	..	4,000	6 25		
Tinnevelly ..	....	....	..	..	*Nil*	..	..	..		
Malabar (Wynaad and Pálghat).	....	....	..	..	*Nil*	..	..	..		
Malabar (Nilambúr).	Nilambúr	Pakote	761	..	...	..	761	..		
		Pannangode	859 09	..	..	..	859 09	..		
		Valuvasheri	914	..	..	..	914	..		
		Yedakod	4,358 52	..	..	..	4,358·52	..		
		Arimbrakutta	322	..	..	..	322	..		
		Kanakut	669	..	..	..	669	..		
		Erambadam	581	..	..	..	581	..		
		Kariyan	1,002·10	..	..	..	1,002 10	..		
		Muriyat	1,765	..	..	..	1,765	..		
		Total ..	11.231 71	17·55	..	..	11,231·71	17·55		
South Canara	....	....	..	..	*Nil*	..	..	..		
		Grand Total ..	196,596 71	307·18	432	17,652	179,376 71	280 27		

Annual Form No. 59-C.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, 1886-87.

District.	Range.	Name of Forest.	Area on 1st April 1886		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Sativedu	Allikuli *	5,649	..	..	..	5,649	..	G.O., No. 311, dated 13th March 1885.	
		Nágalápuram †	8,333	..	12	..	8,345	..	G.O., No. 1321, dated 30th Nov. 1885.	
		Alamadi	1,263	..	..	..	1,263	..	G.O., No. 1386, dated 19th Dec. 1885.	
		Palavakam	..	..	2,561	..	2,561	..	G.O., No. 940, dated 1st Nov. 1886.	Transferred from 59-B. after deducting 235 acres set apart for the use of villagers, &c.
		Pulrambakam	541	..	..	..	541	..	Board's Procs., No. 3195 / Forest 288, dated 12th Sept. 1884.	Notified under section 4 of the Forest Act.
	Chingleput	Vallam	..	..	1,329	..	1,329	..	G.O., No. 53, dated 21st Jan. 1887.	
		Anjur	..	..	1,509	..	1,509	..		
		Nemali	..	..	633	..	633	..		
		Alapakam	..	..	497	..	497	..		
		Tirumani	..	..	639	..	639	..		
		Muttukadu	86	..	..	..	86	..	Board's Procs., No. 1413 / Forest 90, dated 25th April 1884.	
		Vandalúr	3,207	..	..	3,207	..	..	....	Transferred to 59-A.
	Madurántakam	Acharapakam	864	..	..	..	864	..	Board's Procs., No. 3925 / Forest 395, dated 18th Nov. 1884.	
		Latur	1,011	..	..	..	1,011	..		
		Nedumaram	198	..	..	..	198	..		
		Venmani	238	..	..	..	238	..		
		Madaiyambakam	241	..	..	..	241	..		
		Sattamai	135	..	..	..	135	..		
		Kattugudalur	4,273	..	..	..	4,273	..		
		Rajapalaiyam	806	..	..	..	806	..		

* Includes Plasapalaiyam, Hudsonpuram, Embrampuram, Hudsonagaram, Gungulubundla, and Grinvalatam.
† Includes Ramgiri, Krishnapuram, Rappalpatti, and Mudiyur.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*cont.*	Madurántakam—*cont.*	Kurambarai	250	..	..	..	250	..	Board's Procs., No. 3925 / Forest 395 dated 18th Nov. 1884.	
		Endatur	168	..	..	..	168	..		
		Tandalam	* 1,587	..	..	† 109·62 ‡ 49·62	1,428	..		
		Sirunallur	503	..	..	..	503	..		
		Kannimangalam	142	..	..	..	142	..		
		Nariyamputur	326	..	..	..	326	..		
		Karukali	600	..	..	..	600	..		
		Kadalamangalam	731	..	..	..	731	..		
		Vadatavur	1,078	..	..	..	1,078	..		
		Vinayaganallur	127	..	..	..	127	..		
		Kunamkolatur	106	..	..	..	106	..		
		Bapanallur	538	..	..	..	538	..		
		Katrambakam	601	..	..	..	601	..	Board's Procs., No. 1862 / Forest 354 dated 22nd June 1885.	
	Conjeeveram	Puduppur	90	..	..	..	90	..		
		Mannur	585	..	..	..	585	..		
	Tiruvallúr	Dasikuppum	339	..	..	339	..	..	....	
		Chenneri	553	..	..	553	..	..	....	
		Pudukuppum	958	..	..	958	..	..	....	Transferred to 59-A. under Ambakam.
		Ambakam	2,300	..	..	2,300	..	..	....	
		Peridam	1,109	..	..	1,109	..	..	....	
		Sattivedu	2,633	..	..	2,633	..	..	....	
		Kotamarikuppum	1,890	..	..	1,890	..	..	....	
		Chinnatipakam	2,336	..	..	2,336	..	..	....	Transferred to 59-A. under Sattivedu.
		Aradur	1,002	..	..	1,002	..	..	....	
		Racherla	415	..	..	415	..	..	....	
		Moppurpalli	859	..	..	859	..	..	....	Transferred to 59-A. under Aradur.
		Cherisu	404	..	..	404	..	..	....	
		Kadur	1,432	..	..	1,432	..	..	....	
		Nellatur	608	..	..	608	..	..	....	Transferred to 59-A. under Kadur.
		Gudalwarpalaiyam	455	..	..	455	..	..	....	
		Santanallur	580	..	..	580	..	..	....	
		Ugumudi	1,441	..	..	1,441	..	..	....	Transferred to 59-A. under Ugumudi, less 22 acres excluded during settlement.
		Damanallur	885	..	..	885	..	..	....	
		Total ..	54,476	85·12	7,180	23,565·24	38,091	59·52		

* *Vide* Board's Proceedings No. 49, dated 1st February 1887, and the collector's marginal note to his letter printed in it. † Excess area recently ascertained. ‡ Excluded for cultivation.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer	Remarks.
North Arcot.	Vellore .. Pólúr taluk	Kapalur	1,267	..	..	..	1,267	..	Board's Procs., No. 1385 / Forest 86, dated 24th April 1886.	Demarcated.
		Kelur	3,537	..	..	..	3,537	..		
		Alliyamangalam	10,062	..	..	..	10,062	..		
		The slopes of the Javadi hills in the Polur taluk including jungle at their foot.	32,000	..	..	..	32,000	..	Board's Procs., No. 4214, dated 8th Dec. 1884.	
		Virappanur	..	..	64,000	..	64,000	..	....	Transferred from Salem. Notified under section 4.
		Putur .. Old Tirupatur sandal reserve.	12,800	..	..	..	12,800	..		
		Patrakad. Old Tirupatur timber reserve.	19,200	..	..	..	19,200	..		
	Vellore taluk	Javadi hill block .. .. / Arasampet do. .. .. / Naikneri do.	64,000	..	..	..	64,000	..	Board's Procs., No. 993 / Forest 183, dated 25th March 1885.	
		Tellai	15,121 01	..	..	..	15,121·01	..	Board's Procs., No. 2329 / Forest 436, dated 13th Aug. 1885.	
	Chandragiri. Chittoor taluk.	Chittoor	359·64	..	..	..	359·64	..	Board's Procs., No. 2700 / Forest 225, dated 6th Aug. 1884.	
		Santapet	2,276·46	..	..	..	2,276·46	..		
		Airala	6,400	..	..	..	6,400	..	*Vide* Collector's notification in page 42 of Forest Sheet of the District Gazette for Aug. 1884	
		Panamur	6,400	..	..	..	6,400	..		
		Bommasamudram	1,425·92	..	..	..	1,425·92	..	*Vide* Collector's notification in page 6 of Forest Sheet of the District Gazette for June 1884.	
		Chillapalli	1,295·85	..	..	..	1,295·85	..		

Area of Reserved Lands, 1886-87—*continued.*

District	Range		Name of Forest	Area on 1st April 1886		Added during the year	Excluded or transferred to other heads	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
				Acres	Equivalent in square miles	Acres	Acres	Acres	Equivalent in square miles.		
North Arcot—*cont*	Chandragiri—*cont*	Chittoor taluk—*cont*	Kinattipalli	1,416 51	..	..	..	1,416 51	.	*Vide* notification in page 6 of Forest sheet of the District Gazette for June 1884	
		Chandragiri taluk	Balapalli block Nagapatla do Mungilpentla block	96,000	..	..	..	96,000	..	Board's Procs., No 2329, dated 13th Aug 1885	
	Head Quarters.	Wálajápet taluk	Gudalur Kolatur Ammanur Uriyur or Anantapuram	535 39 1,779 12 203 27 539 79	..	..	..	535 39 1,779 12 203 27 539 79	..	Board's Procs, No 2700/Forest 225, dated 6th Aug 1884	Demarcated, surveyed, and fenced.
			Banavaram	1,084 55	..	..	* 33 58	1,050 97	..	Board's Procs., No 1385/Forest 86, dated 24th April 1884	Partly demarcated
			Amur	6,019 52	..	..	..	6,019 52	..		Partly demarcated, surveyed, and fenced.
			Minnel Vikramasi reserve Vedantangal Balakrishnapuram Katupakam Aiyal Tenkal Banavaram Head Assistant Collector's Office compound	1,377 59 161 64 46 63 40 145 24 15 83 250 *4	..	* 34 55	..	1,377 59 161 64 46 63 40 145 24 15 83 250 34 55 4	..	Board's Procs, No 2329/Forest 436, dated 13th Aug 1885.	Demarcated and fenced
		Arcot taluk	Satur	1,048	..	..	* 07	1,047 93	..	Board's Procs, No 2773/Forest 223, dated 11th Aug 1884	
			Sennaleri	356	..	1,319 36	..	1,675 36	..	Board's Procs, No 4108/Forest 423, dated 18th Dec. 1884.	

* The result of correction.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.		Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*cont.*	Head Quarters—*cont.*	Arcot taluk—*cont.*	Enadivadi	1,566	..	1·15	..	1,567·15	..	Board's Procs., No. 2773 / Forest 223, dated 11th Aug. 1884.	Demarcated.
			Tandalapan tangal	1,154	..	..	*42·21	1,111·79	..		
			Sholavaram	1,281	..	..	48·87	1,232·13	..		
			Ponnur	939·44	..	..	..	939·44	..	Board's Procs., No. 2700 / Forest 225, dated 6th Aug. 1884.	Demarcated, surveyed and fenced.
		Wandiwash taluk.	Venkundrum	1,288·10	..	..	..	1,288·10	..		
			Badur	873·35	..	..	..	873·35	..		Demarcated.
			Nombidu	720·11	..	..	..	720·11	..		
			Kodiyalam	124·80	..	..	..	124·80	..		Demarcated, surveyed and fenced.
			Nedungal	3,645·10	..	..	..	3,645·10	..	Board's Procs., No. 1385 / Forest 86, dated 24th April 1884.	Demarcated.
			Vishamangalam	1,148·10	..	..	..	1,148·10	..		
			Nedungunam	1,797·18	..	..	..	1,797·18	..		
			Brahmakateri	635·10	..	..	..	635·10	..		
	Palmanér.	Gudiyátam taluk.	Korapatla block	32,000	..	..	..	32,000	..	Board's Procs., No. 2329 / Forest 436, dated 13th Aug. 1885.	
			Petalakuppam block								
			Gundlapalli do.								
			Panamadangi do.								
			Total ..	334,380·83	522·47	65,355·06	124·73	399,611·16	624·39		
South Arcot.	No. I, Tiruvannámalai.		Chinnasamudram	6,000	..	18·81	..	6,018·81	..		
			Anandavadi	6,000	..	..	..	6,000	..		
			Valasamalai	7,000	..	..	..	7,000	..		
			Mudinai	4,000	..	·33	..	4,000·33	..		
			Kavutumalai	6,000	..	·33	..	6,000·33	..		
			Tippakadu	6,000	..	1·42	..	6,001·42	..		
			Perungolatur Swamimalai ..	9,000	..	..	..	9,000	..		
			Tenmalai	20,000	..	..	..	20,000	..		
			Pelamaratur or Gerugamandiyar.	8,000	..	..	..	8,000	..		
			Nallapattu	7,000	..	..	..	7,000	..		
	No. II, Tindivanam ..		Siruvadi	3,333	..	2·31	..	3,335·31	..		
			Muttakadu	3,087	..	7·76	..	3,094·76	..		
			Karai	1,344	..	1·65	..	1,345·65	..		
			Padipallam	3,735	..	..	..	3,735	..		
			Pakamalai	9,026	..	6·19	..	9,032·19	..		
			Agaram	600	..	1·20	..	601·20	..		
			Merkanam	80	..	·6	..	80·5	..		

* The result of correcton.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Arcot—*cont.*	No. II, Tindivanam—*cont.*	Kurumbaram, 1st bit	300	..	..	..	300	..		
		Do. 2nd do.	150	..	..	..	150	..		
		Kumalampet	1,200	..	21·74	..	1,221·74	..		
		Kilsevur	1,200	..	7·74	..	1,207·74	..		
		Panchalam	1,200	..	·12	..	1,200·12	..		
		Bomnatur	300	..	..	..	300	..		
		Peradikuppam	1,400	..	2·16	..	1,402·16	..		
		Agur	1,200	..	..	..	1,200	..		
		Naduvandur	2,800	..	8·46	..	2,808·46	..		
		Saram	250	..	1·03	..	251·03	..		
		Salavadi	70	..	..	..	70	..		
		Jaggampet	300	..	·16	..	300·16	..		
		Attikuppam	150	..	..	..	150	..		
		Akshikadu	450	..	..	..	450	..		
	No. III, Villupuram ..	Ganjavaram	8,740	..	..	..	8,740	..		
		Ramapuram	..	..	1,325	..	1,325	..	....	Transferred from 59-B. and 59-D.
	No. IV, Cuddalore ..	Vellakarai	..	..	1,600	..	1,600	..	....	Transferred from 59-B.
		Valudalampattu	..	..	900	..	900	..	....	
		Sammattikuppam	..	..	350	..	350	..	....	
		Sélambanadampetai	..	..	650	..	650	..	....	
		Vadakuttu, third bit or Maringur forest.	..	..	400	..	400	..	....	
		Vadakuttu, second bit or Vegakottai forest.	..	..	600	..	600	..	....	
		Vadakuttu proper, first bit ..	..	..	2,400	..	2,400	..	....	
		Veludaiyampet	..	..	1,700	..	1,700	..	....	
		Peramatur	..	..	1,700	..	1,700	..	....	
		Kangiruppu, first bit ..	..	..	2,000	..	2,000	..	....	Transferred from 59-B. and 59-D.
		Do. second bit ..	..	..	1,240	..	1,240	..	....	
		Velankuppam	..	..	1,000	..	1,000	..	....	Transferred from 59-B.
		Talangoda	..	..	200	..	200	..	....	These are all plantations proposed for reserved forest and now declared as reserved lands. The area given in Form No. 60 is stocked area, whereas the area given here comprises the whole plantation limits and hence the difference of 1,643·52 acres.
		Fort Saint David	..	..	45	..	45	..	....	
		Shanankuppam	..	..	195	..	195	..	....	
		Donidorai	..	..	120	..	120	..	....	
		Nochikadu	..	..	550	..	550	..	....	
		Periyakuppam	..	..	1,600	..	1,600	..	....	
		Total ..	119,915	187·37	18,657·01	..	138,572·01	216·52		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem	Salem	Bodamalai	5,600	..	..	5,600	..	..	....	Transferred to 59-A.
		Pillapadi	4,992	..	..	..	4,992	..	District Gazette, dated 6th Dec. 1884.	
		Atur ghât	3,142	..	..	3,142	..	..	....	Transferred to 59-A.
		Mallâpuram	2,285	..	..	..	2,285	..	District Gazette, dated 6th Dec. 1884.	
		Nartanchedu	2,400	..	..	..	2,400	..		
		Vaniyar	4,512	..	..	..	4,512	..		
		Kuttar	3,795	..	..	3,795	..	..	....	Transferred to 59-A.
		Manjavadi ghât	8,461	..	..	..	8,461	..	District Gazette, dated 19th Dec. 1884.	
		Kudimadavu	4,307	..	..	..	4,307	..		
		Mallâpuram ghât extension	640	..	..	..	640	..	District Gazette, dated 7th March 1885.	
		Ajampatti	1,920	..	..	..	1,920	..		
		Nartanchedu extension	1,088	..	..	1,088	..	..	....	Transferred to 59 A.
		Yerimalai	3,520	..	..	3,520	..	..	....	
		Kanavoipudur	3,200	..	..	..	3,200	..	District Gazette, dated 7th March 1885.	Vadajampatti block of 1,976 acres and Kariyappakombai block of 266 acres are specially protected.
		Lokur	5,312	..	..	..	5,312	..	Do.	Morur block of 799 acres and Ammaneri block of 252 acres are specially protected.
		Pillapallikombai (new)	2,080	..	..	2,080	..	..	....	Transferred to 59-A.
		Atúr ghât extension	544	..	..	544	..	..	....	
		Kanjiri (new)	4,032	..	..	..	4,032	..	....	Kanjiri block of 1,929 acres is specially protected.
		Pannikaradu (new)	4,832	..	..	..	4,832	..	....	Pannikaradu block of 2,645 acres is specially protected.
		Mallâpuram	589	..	..	..	589	..	....	Specially protected.
		Karuvattuparai	800	..	1,000	* 1,800	..	..	....	Added by re-measurement.
		Kurumbapatti	10,000	..	..	..	10,000	..	District Gazette, dated 7th Nov. 1885.	
	Atúr	Varagur	2,675	..	..	..	2,675	..	District Gazette, dated 6th Dec. 1884.	

* Transferred to 59-A.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Atúr—*cont.*	Nayakenkombai	2,880	..	..	..	2,880	..	District Gazette, dated 6th Dec. 1884.	
		Belur	6,880	..	..	6,880	..	..	....	Transferred to 59-A.
		Nagur	3,757	..	..	3,757	..	..	....	
		Pattimedu	3,046	..	..	..	3,046	..	District Gazette, dated 6th Dec. 1884.	
		Nagalur	6,138	..	..	..	6,138	..		
		Tumbal	3,680	..	..	..	3,680	..		
	Námakal	Jambutu	2,617	..	..	2,617	..	..	Do.	Transferred to 59-A.
		Puliyan shola	5,530	..	..	..	5,530	..	Do.	
	Atúr and Námakal	Karuvallikombai	8,755	..	..	8,755	..	..	....	Transferred to 59-A.
	Utenkarai	Pillapatti	8,000	..	..	8,000	..	..	....	
		Tumbekal	7,757	..	..	7,757	..	..	....	
		Nochikalli	7,917	..	..	..	7,917	..	District Gazette, dated 6th Dec. 1884.	
		Kalnad	4,320	..	..	..	4,320	..		
		Chitteri	3,917	..	..	3,917	..	..	....	Transferred to 59-A.
		Karungal	4,320	..	..	..	4,320	..	District Gazette, dated 19th Dec. 1884.	
	Tirupatúr	Chittiling	6,880	..	..	..	6,880	...		
		Kottapatti	8,960	..	..	8,960	..	..	....	Transferred to 59-A.
		Mangalam	6,080	..	..	6,080	..	..	....	
		Nagalutu	2,560	..	..	2,560	..	..	....	
		Mambakam	9,370	..	..	9,370	..	..	....	
		Kotanur	7,257	..	..	..	7,257	..	District Gazette, dated 19th Dec. 1884.	Transferred to 59-A.
		Pungolum	7,834	..	..	7,834	..	..		
		Garuggamundi	1,280	...	..	..	1,280	...	Do.	
		Madagatar	3,200	..	..	..	3,200	..	Do.	
		Mattakadapa	2,048	..	..	2,048	..	..	....	Transferred to 59-A.
		Jolarpet	1,216	..	..	1,216	..	..	....	
		Narasingapuram	2,048	..	..	2,048	..	..	....	
		Kalvapatti	2,016	..	..	2,016	..	..	....	
		Alangayam	11,520	..	..	..	11,520	..	District Gazette, dated 7th Feb. 1885.	
		Andiyappanur	4,704	..	..	..	4,704	..		
	Utenkarai	Kallavi	4,160	..	..	..	4,160	..		
		Puvampatti	4,672	..	..	4,672	..	..	....	Transferred to 59-A.
		Poiyapatti	3,488	..	..	..	3,488	..	District Gazette, dated 7th Feb. 1885.	
		Mórapúr	4,000	..	..	..	4,000	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Utenkarai—*cont.*	Harur (new)	1,901	..	..	..	1,901	..	District Gazette, dated 7th Feb. 1885.	
		Tirtamalai	11,046	..	..	..	11,046	..		
		Utenkarai (new)	3,200	..	..	..	3,200	..		
		Wumagiri	2,944	..	..	..	2,944	..		
		Vepampatti	8,640	..	..	..	8,640	..	District Gazette, dated 17th Feb. 1885.	
		Kalladipatti	2,912	..	..	..	2,912	..		
		Tenkaraikota	2,368	..	..	..	2,368	..	District Gazette, dated 7th March 1885.	
		Kowramalai	8,512	..	..	..	8,512	..		
		Ammapalaiyam	9,216	..	..	..	9,216	..		
		Singarapet	2,624	..	..	..	2,624	..		
	Tirupatur and Utenkarai	Singarapet extension	7,398	..	..	..	7,398	..	District Gazette, dated 19th Dec. 1884.	
		Govindapuram	3,104	..	..	..	3,104	..	District Gazette, dated 7th Feb 1885.	
	Hosúr	Aiyur	5,952	..	..	..	5,952	..	District Gazette, dated 19th Dec. 1884.	Mailagiri block of 5,461 acres is specially protected.
		Marandahalli	5,824	..	..	..	5,824	..		Kanavoikotapalli block of 742 acres is specially protected.
		Gulhatti (new) *	7,942	..	..	..	7,942	..		Manchi block of 3,365 acres is specially protected.
		Toluvabetta †	6,918	..	..	..	6,918	..		
		Manchi (new)	5,632	..	..	..	5,632	..		
		Anchetti	8,832	..	..	..	8,832	..		
		Natrapalaiyam	10,880	..	..	..	10,880	..		
		Biligundla	14,272	..	..	..	14,272	..		
		Kestur	11,616	..	..	..	11,616	..	District Gazette, dated 10th Jan. 1885.	
		Bilikal	11,136	..	..	..	11,136	..		
		Malahalli	8,928	..	..	..	8,928	..		
		Taggatti	10,432	..	..	..	10,432	..		
		Helibandai	7,360	..	..	..	7,360	..		
		Pani	5,856	..	..	..	5,856	..		
		Javalagiri	6,016	..	..	..	6,016	..		
		Talli	6,368	..	..	..	6,368	..		
		Kundrakota	4,768	..	..	..	4,768	..		
		Sivanhalli	4,992	..	..	..	4,992	..		
		Naganur	3,200	..	..	..	3,200	..		
		Denkanikota	2,816	..	..	..	2,816	..		
	Dharmapuri	Pennágaram	10,304	..	..	..	10,304	..		
		Morapur	16,640	..	1,200	..	17,840	..		By re-measurement.

* Gulhatti block of 3,248 acres is specially protected. † Kanavanagasun dram block of 416 acres is specially protected.

Area of Reserved Lands, 1886-87—*continued.*

District	Range	Name of Forest	Area on 1st April 1886		Added during the year	Excluded or transferred to other heads	Area on 31st March 1887.		Number and date of notification of addition or transfer	Remarks
			Acres	Equivalent in square miles	Acres	Acres	Acres	Equivalent in square miles.		
Salem—*cont*	Hosúr and Dharmapuri ..	Woddapatti	17,152	..	..	..	17,152	..	District Gazette, dated 19th Dec 1884	
	Dharmapuri and Hosúr	Gutirayan	15,776	..	..	..	15,776	..	District Gazette, dated 10th Jan 1885	
		Maharajagadai .. .	10,304*	..	..	..	10,304	..		
		Neralkota	7,040	..	..	..	7,040	..		
	Krishnagiri	Bargur (new)	1,920	..	..	..	1,920	..	District Gazette, dated 7th Feb 1885	Bargur block of 220 acres is specially protected.
		Togarapalli	500	..	401	..	901	..	District Gazette, dated 7th Mar 1885	Togarapalli block of 499 acres is specially protected
	Krishnagiri and Tirupatúr	Kotur	3,840	..	..	..	3,840	..	District Gazette, dated 7th Feb 1885	Pudur block of 1,069 acres is specially protected
	Tirchengód	Pakkanad	..	..	7,000	..	7,000	..	Board's Procs, No 610, dated 21st Nov 1886	Notified under sec. 4, F S G G, dated 9th Nov. 1886, pages 1008, 1009
		Surimalai	..	..	7,500	..	7,500	..	Do do.	Notification No 902, F S G G, dated 9th Nov 1886, pages 1008, 1009
		Total ..	550,614	860·33	17,101	110,056	457,659	715 09		
Trichinopoly	Trichinopoly	Tuvagudi	1,438	..	..	..	1,438	..	....	Notified under section 4
		Ettarai	..	..	* 483	..	483	..	Board's Procs, Forest No 263, dated 17th May 1886	
		Adavatur, No 1	..	..	* 369 81	..	369 81	..		
		Adavatur, No 2	..	..	* 330 58	..	330 08	..		
		Valur	..	..	* 381 74	..	381 74	..		
		Kotrapatti	..	..	* 210 74	..	210 74	..		
		Natarajapuram	..	..	* 108 85	..	108 85	.		
		Alandur	..	..	* 149 04	..	149 04	..		
		Adavatur	..	..	144	..	144	..	Board's Procs, Forest No 561, dated 15th Oct 1886	Tank beds.
		Punganur	..	..	281	..	281	..		
	Kulitalai	Viramalai Hills .. .	2,000	..	..	..	* 2,000	..	....	Notified under section 4.
		Poiyapatti do	720	.	..	† 81	* 639	..	....	

* Approximate area only Areas of putta lands excluded. † 57 acres excluded by Forest Settlement Officer

Area of Reserved Lands, 1886-87—*continued.*

District.	Range	Name of Forest	Area on 1st April 1886		Added during the year	Excluded or transferred to other heads	Area on 31st March 1887.		Number and date of notification of addition or transfer	Remarks
			Acres	Equivalent in square miles.	Acres	Acres	Acres.	Equivalent in square miles		
Trichinopoly —*cont.*	Kulitalai—*cont*	No I, Shemmalai	500	..	..	† 100	* 400	..	....	Notified under section 4.
		No. II, Shemmalai	500	..	..	..	* 500	..	....	
		Pakkarikaradu	300	..	..	..	* 300	..	....	
		Puttanatam range comprising *Kuramalai, Pulamalai and Nadumalai	500	..	..	..	* 500	..	....	
		Surpam	700	..	..	..	* 700	..	....	
		Pettuvoitalai	137	..	..	137	..	..	....	Transferred to 59-A
		Maradur	180	..	..	..	* 180	..	....	Notified under section 4
		Mayanur	50	..	..	..	* 50	..	....	
		Pudur	..	..	141	..	141	..	Board's Procs., Forest No 561, dated 15th Oct 1886	
		Sekkanam	..	..	119	..	119	..		
		Mahadanapuram	..	..	191	..	191	..		
		Pillapalaiyam ‡	..	..	10 73	..	10 73	..		
		Vengampatti ‡	..	..	102 50	..	102 50	..		
		Punjantangi hill valley	..	..	286	..	* 286	..	No 135, F S G G, dated 22nd Mar. 1887	Notified under section 4
		Tani and Sengamakaradu	..	..	800	..	* 800	..		
		Madalamalai	..	..	500	..	* 500	..		
		Karupur	..	..	2,000	.	* 2,000	..		
		Reddipatti hill	..	..						
	Musiri	Sengattupatti	2,000	..	1,000	* 3,000	..	..	....	Transferred to 59-A
		Melur	2,000	..	1,000	* 3,000	..	..	....	
		Omalur	..	..	320 54	..	* 320 54	..	Board's Procs, Forest No 263, dated 17th May 1886	—
		Tolaiyanatam and Kotarapatti	..	..	332 92	..	* 332 92	..		
		Tirutalaiyur	..	..	125 14	..	* 125 14	..		
		Yedumalai	..	..	959 04	..	* 959 04	..		
		Vellakalpatti	..	..	1,223 92	..	* 1,223 92	..		
		Pulivalam	..	..	521 98	..	* 521 98	..		
		Mavalipatti	..	..	1,010 26	..	* 1,010 26	..		
		Visalatchyammalsamudram	..	..	137 76	.	* 137 76	..		
		Manalodai	3,000	..	1,000	4,000	..	..	....	Transferred to 59-A
		Salamatti	5,000	..	2,000	7,000	..	..	....	
		Kalammankovil	..	..	1,500	..	* 1,500	..	No 135, F S G G, dated 22nd Mar 1887	Notified under section 4.
		Karuppankadu tittu	..	..	2,000	..	* 2,000	..		
		Kanapadi Kannimar solai	..	..	2,560	..	* 2,560	..		
		Silaiyur	..	..	1,600	..	* 1,600	..		
		Valaiyur	..	..	3,480	..	* 3,480	..		

* Approximate area only Areas of putta lands excluded † Excluded pending settlement of dispute

‡ Transferred from Form No 60, Ambasamudram, of which these two tank beds formerly formed a portion.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Trichinopoly—*cont.*	Musiri—*cont.*	Munmalai	..	..	3,000	..	* 3,000	..	No. 135, F.S.G.G., dated 22nd Mar. 1887.	Notified under section 4.
		Kanjurmalai and Uduvampattimalai.	..	..						
		Kanapadi (Tenparanad)	..	..	12,000	..	* 12,000	..		
		Kanapadi (Vannad)	..	..	10,000	..	* 10,000	..		
		Palamalai	..	..	15,000	..	* 15,000	..		
	Perambalúr	Kannam	..	..	194·54	..	* 194·54	..	Board's Procs., Forest No 263, dated 17th May 1886.	Notified under section 4.
		Kotavasal	..	..	166·77	..	* 166·77	..		
		Koraipadai	..	..	220·74	..	* 220·74	..		
		Sengatur	..	..	10,000	..	* 10,000	..		
		Valaiyur	..	..	3,000	..	* 3,000	..		
		Semmalai	..	..	5,000	..	* 5,000	..		
		Puliyur	..	..	10,000	..	* 10,000	..		
	Udayárpálaiyam	Jayankondacholapuram	..	..	80	..	* 80	..	Board's Procs., Forest No. 232, dated 5th May 1886.	
		Jayankondacholapuram	..	..	250	..	* 250	..		
		Vasavanullur	..	..	250	..	* 250	..		
		Malángankudisemppu	..	..	100	..	* 100	..		
		Kodukur	..	..	150	..	* 150	..		
		Kanjuli	..	..	800	..	* 800	..		
		Aiyur	..	..	1,320	..	* 1,320	..		
		Tirukanam	..	..	700	..	* 700	..		
		Pasikulara	..	..	100	..	* 100	..		
		Adanakurchi	..	..	250	..	* 250	..		
		Sittedaiar	..	..	50	..	* 50	..		
		Kulamur	..	..	200	..	* 200	..		
		Periyakurchi	..	..	150	..	* 150	..		
		Sattambadi	..	..	800	..	* 800	..		
		Alavai	..	..	300	..	* 300	..		
		Ambapur	..	..	200	..	* 200	..		
		Ulliyagudi	..	..	200	..	* 200	..		
		Sundreswarapuram	..	..	150	..	* 150	..		
		Periyapalaiyam	..	..	950·55	..	* 950·55	..		
		Vettiyarvettu	..	..	460	..	* 460	..		
		Kovilur	..	..	640	..	* 640	..		
		Udukulam	..	..	1,170·33	..	* 1,170·33	..		
		Velangudi	..	..	890·45	..	* 890·45	..		
		Total	19,025	29·73	106,123·93	17,318	107,830·93	168·49		

* Approximate area only. Areas of putta lands excluded.

Area of Reserved Lands, 1886-87—*continued.*

District	Range	Name of Forest	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer	Remarks
			Acres	Equivalent in square miles	Acres	Acres	Acres.	Equivalent in square miles		
Tanjore	Southern Range Tiruturaipúndi taluk	Kodiyakadu (Point Calimere) ..	4,355	6 80	..	..	4,355	6 80	Board's Procs, No. 3052/Forest 607, dated 6th Nov 1885.	Notified under section 4 *Vide* G O, No. 59, dated 22nd January 1887.
North Coimbatore	Erode taluk	Udayarpalaiyam .. .	566	..	..	..	566	..	Board's Procs, No. 3513/Forest 323, dated 10th Oct 1884.	
		Pulankulam	296	..	.	..	296	..		
		Karumanjirai . ..	98	..	..	..	98	..		
		Kannatur	181	..	.	..	181	..		
		Vellaraivelli	57	..	..	..	57	.		
		Sinniyampalaiyam	327	.	.	..	327	.		
		Madatupalaiyam ..	131	..	..	..	131	..		
		Karukampalaiyam	249	..	..	..	249	..		
		Tingalur	336	..	..	..	336	..		
		Papampalaiyam . ..	183	..	..	..	183	..		
		Palanayakampalaiyam . ..	296	..	..	..	296	..		
		Nichampalaiyam	1,024	.	..	..	1,024	.		
		Pandiyanpalaiyam	644	..	..	.	644	..		
		Singanallur	594	..	..	..	594	..		
		Pettampalaiyam	291	..	..	.	291	..		
		Kanjikovil	1,344	..	..	..	1,344	..		
		Avalpunturai	93	..	..	..	93	.		
		Tuyampunturai	123	..	..	..	123	..		
		Tenmugamnellodu	47	..	..	.	47	..		
		Pungampadi	60	..	..	..	60	..		
		Ingur	461	..	..	..	461	..		
		Perundurai	620	..	..	..	620	..		
		Palakarai	48	..	..	..	48	..		
		Nallampatti	475	..	..	..	475	.		
		Sulipalaiyam	227	..	..	..	227	..		
		Ponmudi	131	..	..	..	131	..		
		Karandipalaiyam	134	.	..	..	134	.		
		Mettupudur	215	.	..	..	215	..		
		Chinnavirasangili	550	..	..	..	550	..		
		Periyavirasangili	357	..	..	..	357	..		
		Mungilpalaiyam	222	..	..	..	222	..		
		Kambaliyampalaiyam	98	.	..	..	98	..		
		Varapalaiyam	205	..	..	..	205	..		
		Kongampalaiyam	177	..	..	..	177	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore—*cont.*	Erode taluk—*cont.*	Nadupatti	214	..	..	..	214	..	Board's Procs., No. 3153 / Forest 323, dated 10th October 1884.	
		Pudurpallapalaiyam	230	..	..	..	230	..		
		Sundakoipalaiyam	280	..	..	..	280	..		
		Chinnagoundanvalasi	79	..	..	..	79	..		
		Vittalampatti	365	..	..	..	365	..		
		Veliyampatti	136	..	..	..	136	..		
		Virumandapalaiyam	904	..	..	..	904	..		
		Muttampalaiyam	376	..	..	..	376	..		
		Sengapalli	535	..	..	..	535	..		
		Tenmugam Kangayampalaiyam..	117	..	..	..	117	..		
		Reddiyapalaiyam	107	..	..	..	107	..		
		Utukuli	170	..	..	..	170	..		
		Vadugapalaiyam	45	..	..	..	45	..		
		Rakkiyapalaiyam	30	..	..	..	30	..		
		Kavandampalaiyam	95	..	..	..	95	..		
		Morattupalaiyam	272	..	..	..	272	..		
		Sirkar Periyapalaiyam ..	45	..	..	..	45	..		
		Do. Kattangani .. .	174	..	..	..	174	..		
		Ichipalaiyam	199	..	..	..	199	..		
		Sirukalanji	491	..	..	..	491	..		
		Dalavaipalaiyam	710	..	..	..	710	..		
		Vayipadi	750	..	..	..	750	..		
		Kuttampalaiyam	63	..	..	..	63	..		
		Punjai Palatoluvu	763	..	..	..	763	..		
		Nanjai do.	37	..	..	..	37	..		
		Kodumanal	77	..	..	..	77	..		
		Orattapalaiyam	115	..	..	..	115	..		
		Pudupalaiyam	510	..	..	..	510	..		
		Yellaigramam	255	..	..	..	255	..		
		Attavanaipidari	58	..	..	..	58	..		
		Mukasipidari	205	..	..	..	205	..		
		Srunamalai	2,147	..	..	..	2,147	..		
		Murungaitotuvu	80	..	..	..	80	..		
		Arachalur	4,163	..	..	..	4,163	..		
		Kongadayampalaiyam	137	..	..	..	137	..		
		Kollankovil	725	..	..	..	725	..		
		Kontalam	208	..	..	..	208	..		
		Sivagiri	345	..	..	..	345	..		
		Villakatti	559	..	..	..	559	..		
		Kagam	161	..	..	..	161	..		
		Kolaivilaku	195	..	..	..	195	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Coimbatore—*cont.*	Karúr taluk	Karavalli	65	..	..	..	65	..	Board's Procs., No. 2203 / Forest 420, dated 28th July 1885.	
		Munnur	121	..	..	..	121	..		
		Kuppam	232	..	..	..	232	..		
		Punjaipugalur	71	..	..	..	71	..		
		Nerur	131	..	..	..	131	..		
		Pavitram	144	..	..	..	144	..		
		Punjaikalakurchi	81	..	..	..	81	..		
		Gudalur	96	..	..	..	96	..		
		Modukur	130	..	..	..	130	..		
		Inanganur	174	..	..	..	174	..		
		Sendamangalam	2,054	..	..	..	2,054	..		
		Kakkavadi Pichampatti ..	187	..	..	..	187	..		
		Talipatti	141	..	..	..	141	..		
	Satyamangalam ..	Block, No. I	224,000	..	..	..	224,000	..	Board's Procs., No. 2535 / Forest 480, dated 2nd Sept. 1885.	
		Do. II								
	Kollegál	Do. I	249,600	..	..	..	249,600	..		
		Do. II								
		Do. III								
	Bhavâni	Do. I	140,800	..	..	..	140,800	..		
		Eastern slopes of the Nilgiris ..	48,000	..	..	48,000	...	..	....	Transferred to 59-A.
		Total ..	693,954	1,084·30	..	48,000	645,954	1,009·30		
South Coimbatore.	Coimbatore taluk—Sholakarai range	Small Sholakarai Reserve ..	..	..	80·5	..	* 80·5	..	Notification in District Gazette, dated 3rd Oct. 1885, in accordance with Board's Procs., No. 2116 / Forest 398, dated 16th July 1885.	
	Palladam taluk ..	Alatur	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasur	94	..	..	..	94	..		
		Asanellipalaiyam	160	..	..	..	160	..		
		Avanashi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Ittivirampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Kaduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampalaiyam	156	..	..	..	156	..		
		Kaniyur	820	..	..	..	820	..		
		Karadibari	50	..	..	..	50	..		

* This area should have been included last year but was omitted by mistake.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range	Name of Forest	Area on 1st April 1886		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer	Remarks.
			Acres.	Equivalent in square miles	Acres	Acres.	Acres.	Equivalent in square miles.		
South Coimbatore—*cont.*	Palladam taluk—*cont.*	Karaipudur	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Kurumbapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	.	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandupalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalayapalaiyam	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naranapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambur	113	..	..	..	113	..		
		Papakulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Perumanullur	159	..	..	..	159	..		
		Perunkarunaipalaiyam	53	..	..	..	53	..		
		Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Punalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	.	..	52	..		
		Settipalaiyam	159	..	.	..	159	..		
		Sennaripalaiyam	75	..	.	..	75	..		
		Sokkanur	132	..	.	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Taranallur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	.	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Vadugapalaiyam	293	..	..	..	293	..		
		Vallipuram	52	..	..	.	52	..		
		Velampalaiyam	81	..	..	..	81	..		
		Velampalaiyam	75	..	..	.	75	..		
		Virapundi	175	..	..	.	175	..		
		Total	11,359	17 75	80 5	..	11,439 5	17 87		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Area.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. I. Periyakulam ..	Kutinachiyar	640	..	..	640	..	..	....	Transferred to 59-A.
		Pandaratorai	300	..	..	300	..	..	....	
		High waving mountain slopes ..	960	..	..	960	..	..	....	Includes Vannathiparai and Kutinachiyar blocks.
		Kombai	6,400	..	..	..	6,400	..	....	
		Surulipatti	..	..	5,760	..	5,760	..	No. 208, *Fort St. George Gazette*, dated 4th June 1886, and published at page 6 of Forest sheet, dated 15th July 1886.	Notified under section 4.
		No. I. Vellaikaradu	965·24	..	..	..	965·24	..		
		,, II. Sonaikaradu	181·72	..	..	..	181·72	..		
		,, III. Mottaikaradu	192·34	..	..	..	192·34	..		
		,, IV. Kuttaikaradu	125	..	..	..	125	..		
		,, V. Nagarmalaikaradu ..	118	..	..	..	118	..		
		,, VI. Perumalmalaikaradu ..	573	..	..	..	573	..		
		,, VII. Sanniyasikovilkaradu ..	283·20	..	..	..	283·20	..		
		Murugamalai fuel and fodder reserves.	3,226	..	..	..	3,226	..		
	No. II. Kodaikánal ..	Talaiarkadu								
		Varattarkanal								
		Iruttarkanal	1,056	..	..	* 1,056	..	..	....	730 Transferred to 59-A.
		Kadamaravu								
		Nochiyarkadu								
		Talaisr Andarkovil kadu ..								
		The southern slopes of the Palni hills.								
		The eastern slopes of the Palni hills.	25,600	..	..	..	25,600	..		
		The northern slopes of the Palni hills.								
		All the lands on the Lower Palni hills lying outside the limits of certain cultural waste selected and set apart.	32,000	..	..	..	32,000	..		

* A more accurate area of these blocks having been ascertained since the settlement, only 730 acres have been entered in 59-A. The balance 326 acres being the result of the original rough estimate have been altogether omitted.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Madura—*cont.*	No. II. Kodaikánal—*cont.*	Manjakarikadu	1,600	..	..	..	1,600	..		
		Vanjankanal								
		Alayadikanal								
		Chekodikanal								
		Kadagatadikadu								
		Koviladikanal								
		Kumalarakadu								
		Talakodaikadu								
		Tiniluttukadu								
		Ponvettukanal								
		Periyasolaikadu								
		Poliyapattimalai								
		Elamalai								
		Nadumbaraikadu								
		Perumalmalai	..	..	12,800	..	12,800	..	No. 208, *Fort St. George Gazette*, dated 4th June 1886, and published at pages 7 to 9 of Forest sheet, dated 15th July 1886.	Notified under section 4.
		Arankanal	..	..	2,560	..	2,560	..		
		Kallar	..	..	9,600	..	9,600	..		
		Kadugatadikadu	..	..	1,280	..	1,280	..		
		Oliyanutodai	..	..	3,200	..	3,200	..		
	No. III. Dindigul and No. IV. Melúr ..	Karandamalais	..	..	22,400	..	22,400	..		Transferred from 59-D and notified under section 4.
		Panjantangi hills	..	..	3,200	..	3,200	..		
		Waggatumalai F. and F. Reserves	4,200	..	..	..	4,200	..		
		Kachakatti do. ..	1,694	..	..	..	1,694	..		
		Tirupurankundram hill ..	960	..	..	..	960	..		
		Elephant rock	640	..	..	..	640	..		
	No. V. Madura ..	Ammanamalai	1,600	..	..	..	1,600	..		
		Muttupattimalai								
		Vandiyurkaradu								
		Nalladevanpatti karadu ..	1,920	..	..	..	1,920	..		
		Total ..	85,234·50	133·18	60,800	2,956	143,078·50	223·58		
Tinnevelly..	Nágunéri	Block No. I (*a*)	25,999	..	..	..	25,999	..	These have been notified as proposed Reserved Forests under section 4 of the Forest Act, *vide* G.O., No. 149, dated 23rd February 1886.	Notification under section 16 has not yet issued.
	Ambásamudram.. ..	Block No. II (*a* and *b*).. ..	61,856	..	..	..	61,856	..		
	Tenkási	Block No. III (*a*, *b* and *c*) ..	14,032	..	..	..	14,032	..		
	Sankaranainárkovil ..	Block No. IV (*a*)	30,713	..	..	..	30,713	..		
	Srívilliputur	Block No. V (*a*)	40,006	..	..	..	40,006	..		
	Ambásamudram..	Mulimalai	457·10	..	..	..	457·10	..		
		Kalyaniammankovilparai ..	309·33	..	..	..	309·33	..		
		Koviladiparai	125	..	..	..	125	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or Transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Tinnevelly—*cont.*	Ambásamudram—*cont.*	Salupparpadai	71	..	..	..	71	..		
		Kolandamamalai	1,540	..	..	..	1,540	..		
	Tenkási	Okkanindranpadai	85	..	..	..	85	..		
		Kavalpattiparamba	375	..	..	..	375	..		
		Kottamalai	860	..	..	..	860	..		
		Nalankurchi	212	..	..	..	212	..		
	Sankaranainárkovil	Chunnambuparai	286	..	..	..	286	..		
		Seiyamalai	195	..	..	..	195	..		
		Vedamalai	99	..	..	..	99	..		
	Srivilliputtur	Kottankulam	630	..	..	..	630	..		
		Sappaniparamba	376	..	..	..	376	..		
		Pulpadaiparamba	51	..	..	..	51	..		
		Valaikulamparamba	1,120	..	..	..	1,120	..		
		Onnipattimalai	530	..	..	..	530	..		
		Martandramparai	135	..	..	..	135	..		
	Tinnevelly	Talaiyuttu	891	..	..	..	891	..		
		Sivalaparaiparamba	263	..	..	..	263	..		
	Tenkarai	Kottamadaki	1,279·23	..	..	..	1,279·23	..		
		Kudiraimalai	13,418 41	..	..	..	13,418·41	..		
		Panamparai	117	..	..	..	117	..		
		Kongrayakurchi	77·64	..	..	..	77·64	..		
		Kaliyarkadu	158 07	..	..	..	158 07	..		
		Vallanad hills	4,667	..	..	..	4,667	..		
	Otapidáram	Milavittan	674	..	..	..	674	..		
		Virusampatti	294	..	..	..	294	..		
		Vaipar	813	..	..	..	813	..		
		Total	202,714·35	316·74	..	..	202,714·35	316·74		
Malabar (Wynaad and Pálghat).	Wynaad	Palapattur	861	..	..	..	861	..	....	Excluded portions of the Chedlet Teak forest at the settlement of 1884-85. The Chedlet forest was declared as reserved land in 1884-85. *Vide* District Gazette, dated 5th July 1884.
		Vengur	2,013	..	..	..	2,013	..	....	
		Chedlet	572	..	..	..	572	..	....	
		Karapur	1,221	..	..	..	1,221	..	....	
		Kallur	3,757	..	..	..	3,757	..	....	
		Excluded portions of Trans-Beni Forest at the Forest Settlement of 1884-85.	4,300	..	..	..	4,300	..	....	The Trans-Beni Forest was declared as reserved land in 1884-85. *Vide* District Gazette, dated 5th July 1884.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Malabar (Wynaad and Pálghat)—*cont.*	Wynaad—*cont.*	Kudrakot	26,134	..	..	* 4,632	21,502	..	....	Notified for reservation under section 4 in October 1884.
		Padri	22,400	..	† 8,068	..	30,468	..	....	
		Cardamom forest	13,440	..	† 243	..	13,683	..	....	
		Kanot	25,600	..	..	..	25,600	..	....	Notified for reservation under section 4 in May 1885.
		Chapparam	..	..	‡ 112	..	112	..	....	Notified for reservation under section 4 in Nov. 1885.
		Pannujatta	..	..	‡ 150	..	150	..	....	Do. do.
		Advankunnu	..	..	39·36	..	39·36	..	....	Notified for reservation under section 4 in May 1886.
	Pálghat	Chattamkulangara paramba ..	30	..	..	..	30	..	Not notified under Section 4. Declared as reserved land in 1884. *Vide* District Gazette, dated 5th July 1884.	
		Tampurattipettai alias Pilacheripallam	100	..	..	..	100	..		
		Tiruvazhamkunnu alias Panakadam	1,000	..	..	..	1,000	..		
		Chenatnair forest	16,369	..	..	§ 1,166	15,203	..	....	Final notification under Sec. 16 to have effect from 1st June 1887, published in *Fort St. George Gazette*, dated 5th April 1887.
		Total ..	¶ 117,797	184·06	8,612·36	5,798	120,611·36	188·46		

* Cultivated area. Hence the exclusion.
† Additional area since ascertained.
‡ Erroneously considered as having been included in the "Cardamom forest" (*vide* foot note page 75 of the report for 1885-86), but since ascertained not to be the case. Hence the addition.
§ Excluded.
¶ It was 117,794 in the previous report. Arithmetical error.

N.B.—1. The cultivated area in Kudrakot since ascertained has been excluded.
2. Additional area in Padri since ascertained has been added.
3. Additianal area in Cardamom forest since ascertained has been added.
4. The Chapparam and Pannujatta forests were erroneously considered as having been included in the "Cardamom forest," but since ascertained not to be the case; hence added during the year.
5. The area of the Chenatnair forest on the 31st March 1886 was the area as notified for reservation under section 4 of the Act, but the area entered at the close of the year, *viz.*, 15,203 acres is the finally settled area excluding the portions claimed by neighbouring owners where claims were admitted. The area now entered has been verified by the Survey Department.
6. The total area of the Reserved Land in Malabar (Wynaad and Pálghat) on the 1st April 1886, should be 117,797 acres and not 117,794 acres as printed in Conservator's Annual Report for 1885-86, page 74. Correct figure has been adopted.
7. In the printed copy of the Conservator's Annual Report, Chattamkulangara paramba was stated to have been notified for reservation under section 4 which is not the case.

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Malabar (Nilambúr).	..	....	..	..	..	..	..	..		
South Canara.	Mangalore	No. V. Ullal plantation. Casuarina.	16·50	..	..	..	55·50	..	G.O., 11th Nov. 1886, No. 963, Revenue, communicated in Board's Proceedings, dated 4th December 1886, Forest No. 659.	
		No. V. Ullal plantation. Honne ..	39·00	..	..	..				
		No. X. Tannir Bhavi ..	..	..	50	..	50	..		
		No. XI. Todai Reserve ..	..	..	960	..	960	..	G.O., No. 1097, dated 17th Dec. 1886, Revenue, communicated in Board's Proceedings, dated 24th Jan. 1887, Forest No. 27.	
		No. XII. Hosabetta Reserve ..	..	..	1,600	..	1,600	..		
	Mangalore and Udipi ..	No. XIII. Mujimalai Reserve ..	..	..	3,200	..	3,200	..		
	Udipi and Kondapur ..	No. VII. Tenkahola	..	..	1,920	..	1,920	..	G.O., 11th Nov. 1886, No. 963, Revenue communicated in Board's Proceedings, dated 4th Dec. 1886, Forest No. 659, supplemented by G.O., No. 1130 of 22nd February 1887, communicated in Board's Proceedings, dated 4th March 1887, Forest No. 138, Miscellaneous.	
	Udipi	No. VIII. Chinkaramale ..	..	..	2,560	..	2,560	..		
		No. VI. Manajekadu	..	..	1,280	..	1,280	..		

Area of Reserved Lands, 1886-87—*continued.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Canara—*cont.*	Udipi—*cont.*	No. XIV. Durgamalai ..	..	..	1,920	..	1,920	..	G.O., dated 28th Feb. 1887, Revenue, communicated in Board's Proceedings, Forest No 154, dated 18th March 1887.	
	Uppinangudi	No. I. The Siradi Sisla Reserve*.	19,200	..	..	..	19,200	..		
		No. II. Darmastala Mandaji Reserve.	9,600	..	..	..	9,600	..		
		No. III. The Charmadi Kanapadi Reserve.	12,800	..	..	..	12,800	..		
	Kásaragód	No. IV. The Bagimale Reserve*.	6,400	..	..	..	6,400	..		
		No. IX. Parappa	..	..	7,680	..	7,680	..	G.O., 11th Nov 1886, Revenue, communicated in Board's Proceedings, dated 4th December 1886, Forest No. 659.	
		Total ..	48,055·50	75·08	† 21,170	..	69,225·50	108·16		
		Grand Total ..	2,241,880·18	3,502·93	305,079·86	207,817·97	2,339,142·07	3,654·91		

* These two blocks will be constituted reserved forests from 1st June 1887, *vide* G.O., dated 31st March 1887, No 344, Revenue, communicated in Board's Proceedings of 31st March 1887, Forest No. 240.
† 130 acres transferred from 59-D, 21,040 acres newly added acres—total 21,170.

ANNUAL FORM No. 59-D.

Forest Department, Madras, Southern Circle.

Area of other Forests, 1886-87.

District	Range	Name of Forest	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles	Added during the year Acres.	Excluded or transferred to other heads Acres	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput	..	....	..	..	..	..	..	..		
North Arcot	..	....	..	..	..	..	..	..		
South Arcot.	Tiruvannámalai	Tenmalai ..	16,960	..	..	..	16,960	..		
		Tandrampet ..	20	..	..	..	20	..		
		Kadambai ..	280	..	..	..	280	..		
		Kannamadi ..	25,600	..	..	..	25,600	..		
		Nattampallai ..	2,560	..	..	..	2,560	..		
		Ravandivadi ..	12,800	..	..	..	12,800	..		
		Porasapet ..	15,360	..	..	..	15,360	..		
		Sirupakam ..	11,520	..	..	..	11,520	..		
		Erayur Malai .	5,120	.	..	..	5,120	..		
		Nukambadi Morkulam	32,000	..	..	..	32,000			
		Rasimalai ..	19,200	..	..	..	19,200	..		
		Veppur . ..	25,600	..	..	..	25,600	..		
		Bunarupatti Attapadi	19,200	.	..	..	19,200	..		
		Kaludaikatti Malai	7,040	..	..	..	7,040	..		
		Sannamalai .	10,880	..	..	..	10,880	.		
		Tachampet including Attipakam	29,080	..	..	..	29,080	..		
		Kolamanjanur ..	3,200	..	..	..	3,200	..		
		Pudupalaiyam	6,400	..	..	..	6,400	..		
		Tiruvannamalai timber yard	4	..	..	..	4	..		
		Javadi slopes from Bandirevu to Madagarai in Salem district	25,600	..	..	..	25,600	..		
		Damaraikadu in North Arcot district	7,880	..	..	..	7,880	..		
	No II. Tindivanam	Vailamur Timmippendrug.	10,240	..	..	..	10,240	..		
		Kotenmalai near Padipallam block	392	..	..	..	392	..		
		Vellimodu	2,560	.	..	..	2,560	..		
		Minamur Malai ..	3,840	..	..	..	3,840	..		
		Valeti	1,280	..	..	..	1,280	..		
		Pattuvoy	1,280	.	..	..	1,280	..		
		Kilsevur	1,280	.	..	..	1,280			
		Nadukkuppum to Bramhadesam	3,840	..	..	..	3,840	..		
		Parikalpet .	70	..	..	..	70	..		
	No III Villupuram	Odaiyanattam and Kadaiyam	6,400	..	..	..	6,400	..		
		Pulanjaimalai ..	450		..	..	450	..		
		Ariyalur forest .	500	..	..	..	500	..		
		Pallipudupet	180	..	..	..	180	..		
		Panjamadevi ..	50	..	..	..	50	..		
		Puntotam ..	50	..	..	..	50	..		
		Settipattu ..	50	..	..	..	50	..		
		Periyapuram .	50	..	..	..	50	..		
	No IV Cuddalore.	Ramapuram and Valicheripalaiyam	9	..	..	9	..	..	..	Transferred to 59-C.
		Selambanadampettai	640	.	..	..	640	..		
		Badrakottai ..	1,281	..	..	..	1,281	..		
		Velankuppum ..	2,560	..	..	..	2,560	..		
		Kanjiruppu ..	1,000	..	..	1,000	..	..	..	Transferred to 59-C.
		Karunguli ..	600	..	..	..	600	..		
		Vengadampettai 15th mile stone	250	..	..	..	250	..		
	No IV Chidambaram.	Pinnalur Walajapet tank block	1,600	..	..	..	1,600	..		
	No V Tirukovilúr	Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..		
		Kuttadi	640	..	..	..	640	..		
		Timmachur to Gadilam river	4,920	..	..	..	4,920	.. ..		
		Chikkadu ..	4,920	..	..	..	4,920			
		Paiyur	50	..	..	..	50	..		

Area of other Forests, 1886-87—*continued.*

District	Range	Name of Forest	Area on 1st April 1886		Added during the year	Excluded or transferred to other heads	Area on 31st March 1887		Number and date of notification of addition or transfer	Remarks
			Acres	Equivalent in square miles	Acres	Acres	Acres.	Equivalent in square miles.		
South Arcot—*cont*	No V Tirukovilúr—*cont*	Kolatur	70				70			
		Mambakam	40		..		40			
		Sivampet	50	.			50	..		
		Muttalur	50		..		50			
		Kodiyur	50		.	.	50			
	No VI Kallakurchi	Ponparappi forest	9,600	..			9 600	..		
		Kadambur	3,100				3,100			
		Lalapet forest including Chittal	14,500			.	14,500	..		
		Tagarai kachirajapalaiyam	1,500		13,500	.	15,000	..		The area of Tagarai kachirajapalaiyam forest is 15,000 and not 1,500 Hence the addition to bring the figure correctly
		Parigam .	2,000				2,000			
		Kanai .	3,000		.	..	3,000			
		Poigunnamalai	1,000		..		1,000			
		Palavalam	2,000		..	..	2,000	..		
		Rangappanur	1,000			.	1,000	..		
	No VII Vriddhúchalam	Kammapuram	1,400	..	..	..	1,400			
		Kodanur, south of 46th mile-stone	1,000	..	..	..	1,000	..		
		Wuyakondravi and Kottayam	2,000	.		.	2,000			
		Block near 25th milestone	150	..	..	.	150	.		
		Pudur	1,920		.	.	1,920			
		Kolatur	1,280		..		1,280	..		
		Periyanosalur .	1,280	.	..	.	1 280			
		Total .	376,836	588 81	13,500	1 009	389,327	608 32		
Salem	..	....	..	..	..	.	..	..		
Trichinopoly	..	...		..	..	..	..	.		
Tanjore	South Range	Talaner .	1,200		..	.	1,200	..		
		Kariyapatnam	188		..		188			
		Manakadu .	170		.	..	170	.		
		Valligadangu ..	40				40			
		Vanduvancheri ..	150	..			150			
		Mudupet	300	..	.	..	300			
		Kovilpattu	137		.		137			
		Vanavanmahadevi } Vallupallam	380	..		..	380			
		Pushpavanam	500	..			500	..		
		Periyakudagai ..	366				366	.		
		Total	3,431	5 36	.	..	3,431	5 36		
North Coimbatore	..	....	.	..	..	..	..			
South Coimbatore	..	.. .			.		.	.		
Madura.	No I Periyakulam	Detached hills and Karadus in the Cumbum valley	786 50			..	786 50	..		
		Government portion of the Agamalais	9,280	..	..		9,280	..		
		Andipatti hills	12 800	.	.	..	12,800	.		
	No II Kodaikánal	Upper Palni plateau	32,000	..	..	..	32,000			
	No III Dindigul	Portion of the slopes of the Sirumalais	640	.	..	..	640	..		
		Detached hills near Aiyalur	12,800	..	.	* 3,200	9,600			
		Detached hills near Kanavoipatti	3,840	..	..		3,840	..		
	No IV Mélúr	Karandamalais ..	*26,240	..	..	{ 22,400 } 3,840 }	.		..	Transferred to 59-C
		Nodumalais ..	3,840	..	..	..	3,840	..		
		Some of the detached hills near Nattam	2,560	..			2,560			

* Punjantangi hills transferred to 59-C

* The area to be reserved is estimated only 35 square miles *i.e.*, 22,400 acres transferred to 59-C and 3,840 excluded as an over estimate in former years accounts

Area of other Forests, 1886-87—*continued.*

District	Range	Name of Forest	Area on 1st April 1886		Added during the year	Excluded or transferred to other heads	Area on 31st March 1887		Number and date of notification of addition or transfer	Remarks.
			Acres	Equivalent in square miles	Acres	Acres	Acres	Equivalent in square miles		
Madura —*cont*	No V Madura	Porumalai	5 120			..	5 120			
		A portion of Manjamalais	4 800				4 800			
		Total ..	114,706 50	179 22		29 440	85,266 50	133 23		
Tinnevelly	Tenkarai	Paramankurchi	1 133				1 133			
		Arusur	6,831		.		6 831			
		Kottam	2,860				2,860			
		Total	10 824	16 91	.		10,824	16 91		
Malabar (Wynaad and Palghat)	Wynaad Palghat	Manatana	214,400	..	.	.	214,400			
		Forest land near Doni	150		.	.	150			
		Total	214 550	335 23			214,550	335 23		
Malabar (Nilambúr)		.	.							
South Canara	Mangalam .. Kásaragód	Tannir Bhavi	21		..	21				Transferred to 59 C
		Parapar	109			109				
		Total	130	0 20		130				
		Grand Total	720,477 50	1,125 73	13 500	30,679	703,398 50	1,099 06		

N B —As to Tannir Bhavi the existing plantation has been merged in the area to be finally planted up and n w under settlement with defined b undaries The same applies to Parapa which is the portions planted with teak of the forests now included in a general boundary and proposed for reservation under the name of Parapar

ANNUAL FORM No 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1886-87

District.	Range	Name of Plantation.	On 1st April 1886		Added or excluded during 1886-87		On 31st March 1887		Remarks
			Area.	Cost	Area	Cost	Total area.	Total cost	
		Regular Plantations	ACS.	RS.	ACS	RS	ACS	RS	
Chingleput ..	Chingleput ..	Maivur, Pilapur and Mamandur	397 / 3 } 400	20,484	* — 134	634	263 / 3 } 266	21,118	
		Walajabad	14 56	1,733	.	228	14 56	1,931	
		Hanumantaputeri	12				12		
		Malamaiyur	24	3,900	..	304	24	4,254	
		Venbakam	8				8		
		Nazaretpet	71 54	1,667	.	48	71 54	1,715	
		Covelong	2	274	— 2	— 274	..		Abandoned as the growth was bad
		Total ..	532 09	28,078	— 136	1,214 / — 274	336 09	29,018	
North Arcot	Vellore . ..	Vellore taluk—							
		Ambur	5	515	— 5	— 515		.	Transferred to Form No 61 topes
		Pólúr taluk—							
		Ammudi	25	4,311	..	100	25	4,411	
		Chandragiri taluk—							
		Gazulamandivam	250	3,329	..	84	250	3,413	
	Palmanér ..	Palmaner taluk—							
		Palmaner	2	1,387	— 2	— 1,387		..	
		Nagamangalam	31	2,566	— 31	— 2,566		..	
		Piduguvaripalle	20	3,029	— 20	— 3 029	.	..	Do do
		Venkatagirikota	4	2,286	— 4	— 2,286		.	
		Baireddipalle	4	5,788	— 4	— 5,788	..	..	
		Gudiyátam taluk—							
		Tiruvallam	435	30,642	..	2,245	435	32 887	
		Viringipuram	260	20,721	.	1,269	260	21,990	
		Chainur	129	5,878	— 129	— 5 878			Do do
		Ammundi	160	4,977	..	1,007	160	5,984	
		Tandrayanguntа	2	639	— 2	— 639			Do do
	Head Quarter ..	Vanniyedu	30	2,103	..	510	30	2,613	
		Wálajápet taluk—							
		Arkonam Sub-Magistrate's compound .	5	130	— 5	— 130	.	.	
		Do plantation ..	37	5,116	— 37	— 5,115	..	..	Do do
		Head Asst Collector's Office compound ..	4	151	— 4	— 151	.		
		Tengal	250	84	— 250	— 84	.	..	Abandoned.
		Arcot taluk—							
		Kilminnal	150	10,530	..	— 1,108	150	11 638	
		Total	1,803	1,04,181	— 493	— 27 568 / + 6,323	1,310	82,936	

* The result of actual survey

Area of Plantations, 1886-87—*continued.*

District	Range	Name of Plantation	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks
			Area	Cost.	Area.	Cost	Total area	Total cost	
			ACS.	RS.	ACS	RS	ACS.	RS	
South Arcot ..	No. I Tiruvannámalai	Chengam	8	1,257	..	3	8	1,260	
	No II. Tindivanam	Agaram	102	7,897	4	366	106	8,263	
	No. III Cuddalore.	Achikadu	107	2,176	..	424	107	2,600	
		Talankadu	150	9,212	10	770	160	9,982	
		Fort St David	37	4,537	..	260	37	4,807	
		Shonangkuppam	120	9,390	75	611	195	10,001	
		Donitorai and other salt topes around ..	88	2,707	..	366	88	3,073	
		Nochikadu	336 96	9,257	27 5	919	364 46	10,176	
		Periyakuppam	334 52	5,329	90	2,013	424·52	7,342	
		Amount of land rent paid for plantation within the Municipality of Cuddalore.	..	489	..	351	..	840	
	No IV Chidambaram.	Kallai plantation	71	2,292	3 5	383	74 50	2,675	
		Coleroon mouth plantation..	49·14	1,508	..	231	49 14	1,739	
		Periyapet plantation	75·46	263	20	671	95·46	934	
		Mallatar bed plantation	27	30,101	..	..	27	30,101	
		Velur	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumastah in charge of Tirukoilur plantation.	..	916	..	..	..	916	
		Total ..	1566 08	89,914	230	7,358	1736 08	97,272	
Salem ..	..	....	..	..	..	..	..	..	
Trichinopoly ..	Kulitalai ..	Elamanur	117 10	12,290	..	312	117 10	12,602	
		Pettavaitalai	137	149	..	219	137	368	
		Kulitalai	77·18	10,187	..	383	77 18	10,570	
		Manatattai	44 86	4,186	..	390	44 86	4,576	
		Lalapet	213	5,995	..	531	213	6,526	
		Ambasamudram	319	464	..	60	319	524	
		Mahadanapuram	191	296	..	36	191	332	
		Sittalavoi	160 32	7,472	..	367	160 32	7,839	
		Sekkanam	122	3,008	*—3	52	119	3,060	
		Kattalai	74 35	7,708	..	325	74 35	8,033	
		Pudur	141 30	761	*—30	56	141	817	
		Maivanur	50	43	..	165	50	208	
		Punganur	480	533	†—55	53	425	586	
	Udayárpálaiyam	Kolamanikam	242	6,076	..	262	242	6,338	
		Aramanikurchi	91	2,452	..	57	91	2,509	
		Karaipakam	107	2,691	..	105	107	2,796	

*Result of Survey.

† Result of actual measurement.

Area of Plantations, 1886-87—*continued.*

District	Range	Name of Plantation.	On 1st April 1886		Added or excluded during 1886-87		On 31st March 1887		Remarks
			Area.	Cost.	Area	Cost	Total area	Total cost	
			Acs.	Rs	Acs	Rs	Acs	Rs	
Trichinopoly—*cont*	Udayárpálaiyam—*cont*	Tiruvenganur	185	2,254	..	60	185	2,314	
		Varappakurchi	192	1,804	..	97	192	1,901	
		Sattambadi	105	2,323	..	..	105	2,323	
		Sripurandan	486	3,626	..	85	486	3,711	
		Valakurchi	130	451	..	84	130	535	
		Annagarampet	92	1,398	..	172 (b) 249	92	1,819	(b) Omitted in annual return for 1884-85, now added
		Total .	3,757 11	76,167	— 58 30	4,120	3,698 81	80,287	
Tanjore ..	North Range ..	Tranquebar No I	52	8,161	..	2,256	52	10,420	
		Do No II.	92				92		
		Vettangudi	453				453		
		Neidavasal	51				51		
	Southern Range	Kodiyampalaiyam	60				60		
		Kodambadi	26			3	26		
		Total	734	8,161	..	2,259	734	10,420	
North Coimbatore.	Kollegal ..	Bailur	97	30,078	..	728	97	30,806	Sandalwood plantation
South Coimbatore	Tunakadavu ..	No I Plantation	8·5	4,402	..		8 5	4,402	These are the plantations in No. I Reserve on the Anaimalais
		No II Do	8				8		
		No III Do	3				3		
		Total	19 5	4,402	..	..	19 5	4,402	
Madura	No I Periyakulam	Vannatiparai teak plantation	4	1,391	..	..	4	1,391	
		Kodaikanal Eucalyptus plantation	8	3,342	..	162	8	3,504	
		Do Acacia do .. .	5 50				5 50		
		Do Parappar do	11 50	495	..	425	11 50	920	
		Velamkombai teak do	4 14	976	..	..	4 14	976	
		Pumbarai do ..	3	512		..	3	512	
		Kodaikanal scattered do . .	3	1,018	.	21	3	1,039	
		Total	39 14	7,734		608	39 14	8,342	
Tinnevelly .	..	....	..	..	..	..	..	..	
Malabar (Wynaad and Palghat)	Wynaad sub-division	Kanot teak plantation	41 50	2,934	..	163	41 50	3,097	

Area of Plantations, 1886-87—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1886. Area.	On 1st April 1886. Cost.	Added or excluded during 1886-87. Area.	Added or excluded during 1886-87. Cost.	On 31st March 1887. Total area.	On 31st March 1887. Total cost.	Remarks.
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Malabar (Nilambúr.	Nilambúr	Amarampalaiyam reserve	408·77	..	..	..	408·77	..	
		Chatambarai do.	498·10	..	..	..	498 10	..	
		Nellikutta do.	120·23	..	..	..	120·23	..	
		Iravallikaya	134·86	..	..	..	134·86	..	
		Aruvakad	111·44	..	..	..	111 44	..	
		Edakad	692 52	..	..	..	692.52	..	
		Ellenjeri	337·76	..	..	..	337·76	..	
		Romalur	21·33	..	..	..	21·33	..	
		Mulatmanna	71·56	..	..	..	71·56	..	
		Panangote	497·09	..	8	..	505·09	..	
		Valuvasheri	584·00	..	..	..	584·00	..	
		Mangalasheri	10·74	..	..	..	10·74	..	
		Ambalakandi	1·01	..	..	..	1·01	..	
		Chittarikal .. .. / Puttalat	8·35	..	..	..	8·35	..	
		Arimbrakutamala	21·75	..	..	..	21·75	..	
		Total ..	3519·51	2,12,725	8	5,960	3,527·51	2,18,685	
South Canara.	Mangalore .. / Kásarakód ..	Ullal casuarina and Honne plantation ..	55·50	1,171	* ..	257	55·50	1,428	
		Tannirbhavi casuarina plantation	21	1,456	1	473	22	1,929	
		Parappar teak plantation	109	16,536	..	61	109	16,597	
		Total ..	185·50	19,163	1	791	186·50	19,954	
		Grand Total ..	12,234·43	5,83,537	+ 239 / — 687·30	+ 29,524 / — 27,842	11,786·13	5,85,219	
			Cultural Operations.						
Chingleput ..	..	....	..	..	..	..	..	..	
North Arcot ..	..	....	..	..	..	1,141	..	1,141	
South Arcot ..	..	Ramapuram	70	..	..	..	70	..	
		Forests in Tindivanam and Villupuram ..	555	32	38	..	593	32	
		Forests in Cuddalore, Vriddhachalam and Chidambaram.	530	197	133	† 148	663	345	

* 5,632 square yards or nearly 1½ acres were felled and replanted. The area of the casuarina and Honne plantation has been combined as the whole has been treated as one block for settlement.
† Adjusted under A. VIII (*f.*)

Area of Plantations, 1886-87—*continued.*

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
South Arcot—*cont.*	..	Add charges incurred for carriage and maintenance, &c., of exotic plants planted in forests, but debited to A. VIII (*d*).	..	..	..	66	..	66	
		Total ..	1,155	229	171	214	1,326	443	
Salem ..	..	....	..	..	..	..	..	..	
Trichinopoly.	Trichinopoly ..	Kaduvoi bank	..	..	..	..	..	..	
		Melur	M. 6	54	..	..	M. 6	54	
		Peruvalai bank	„ 2	133	..	..	„ 2	133	
		Coleroon left bank, trunk road to Alambadi ..	„ 22	4,214	..	656	„ 22	4,870	
	Udayárpálaiyam.	Nandiyar project	„ 4	2,267	..	..	„ 4	2,267	
		Coleroon left bank Sembiyagudi to Vaippar ..	„ 21	7,547	..	..	„ 21	7,547	
		Penneri main channel	„ 19	7,094	..	..	„ 19	7,094	
		Penneri branch channel	„ 16	2,199	..	..	„ 16	2,199	
		Lower anicut line..	„ 10	3,457	..	..	„ 10	3,457	
		Vadarar Padugais..	..	3	..	..	..	3	
		Total ..	M. 100	26,968	..	656	M 100	27,624	
Tanjore ..	Southern Range.	Nadar	18	..	..	4	18	4	
		Ichankottai	9	9	..	..	9	9	
		Kollangarai	20	..	..	..	20	..	
		Karungulam Melpadi	5	..	..	..	5	..	
		Marungulam	20	..	..	..	20	..	
		Nadukaveri	9	..	..	..	9	..	
		Natarajapuram							
		Kattucheri	15	48	..	47	15	95	
		Kalliyappanallur	18	48	..	42	18	90	
		Mudikondanallur	25	48	..	40	25	88	
		Vettangudi	520	44	..	198	520	242	
		Naanillam	2	..	..	..	2	..	
		Odiyandevi	20	..	..	..	20	..	
		Vedaraniyam (date garden)	21	42	..	48	21	90	Notified under section 4 of the Madras Forest Act, *vide* G.O., No. 59 dated 22nd January 1887 except date garden of one area,
		Edangankottai (Melur)	7	..	..	..	7	..	
		13 topes in Pudukóta taluk	135	..	..	..	135	..	
		Total ..	844	286+239 =525	..	379	844	618+286 =904	
North Coimbatore.	..	....	..	..	..	..	..	..	
South Coimbatore.	.. ..	....	..	..	..	..	..	..	

Area of Plantations, 1886-87—*continued.*

District	Range	Name of Plantation	On 1st April 1886		Added or excluded during 1886-87		On 31st March 1887		Remarks
			Area	Cost	Area.	Cost.	Total area	Total cost.	
			ACS.	RS	ACS	RS	ACS.	RS.	
Madura ..	..	.. .	..	..	..	..	..	..	
Tinnevelly ..	Tenkási Sub-range	Kudiraimalai teri	537	738	112	155	768	1,122	
		Kolamadakukadu	..	..	119 2½	229 35	2½	35	
		Total ..	537	738	233 50	* 419	770 50	1,157	
Malabar (Wynaád and Pálghat)	..	Amount paid to Mr Ferguson for rubber experiments.	..	..	..	784	..	1,364	
		Cost of cardamom cultivation in Peria range.	..	..	32	580	32		
		Total ..	..	..	32	1,364	32	1,364	
Malabar (Nilambúr)	..	....	..	..	..	..	..	..	
South Canara ..	..	Experimental growth of giant bamboos ..	..	..	.	28	..	28	
		Grand Total ..	2,536 M. 100	28,460	436 50	4,201	2,972 50 M 100	32,661	

* Adjusted under VIII (f).

ABSTRACT.

District.	Range.	Name of Plantation.	On 1st April 1886.		Added or excluded during 1886-87.		On 31st March 1887.		Remarks
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Regular Plantations.						
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	..	....	532·09	28,078	− 136	+ 1,214 − 274	396·09	29,018	
North Arcot ..	..	....	1,803	1,04,181	− 493	− 27,568 + 6,323	1,310	82,936	
South Arcot ..	..	....	1,506·08	89,914	+ 230	+ 7,358	1,736·08	97,272	
Salem ..	..	....	..	..	..	..	..	..	
Trichinopoly ..	..	....	3,757·11	76,167	− 58·30	+ 4,120	3,698·81	80,287	
Tanjore ..	..	....	734	8,161	..	+ 2,259	734	10,420	
North Coimbatore	..	....	97	30,078	..	+ 728	97	30,806	
South do.	..	....	19·5	4,402	..	..	19·5	4,402	
Madura ..	..	....	39·14	7,734	..	+ 608	39·14	8,342	
Tinnevelly ..	..	....	..	..	..	..	..	..	
Malabar (Wynaad and Pálghat) ..	..	....	41·50	2,934	..	+ 163	41·50	3,097	
Malabar Nilambúr ..	..	....	3,519·51	2,12,725	+ 8	+ 5,960	3,527·51	2,18,685	
South Canara ..	..	....	185·50	19,163	+ 1	+ 791	186·50	19,954	
		Total ..	12,234·43	5,83,537	+ 239 − 687·30	+ 29,524 − 27,842	11,786·13	5,85,219	
			Cultural Operations.						
North Arcot ..	..	....	..	..	..	1,141	..	1,141	
South Arcot ..	..	....	1,155	229	171	214	1,326	443	
Trichinopoly ..	..	....	M. 100	26,968	..	656	M. 100	27,624	
Tanjore ..	..	....	844	525	..	379	844	904	
Tinnevelly ..	..	....	537	738	233·50	419	770·50	1,157	
Malabar (Wynaad and Pálghat) ..	..	....	..	..	32	1,364	32	1,364	
South Canara ..	..	....	..	..	..	28	..	28	
		Total ..	2,536 M. 100	28,460	436·50	4,201	2,972·50 M. 100	32,661	

Annual Form No. 61.

Forest Department, Madras, Southern Circle.

Annual list of topes.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Chingleput ..	Chingleput	8	..	Casuarina, mango, margosa, cocoanut, iluppai and inga dulcis	80·77	212	7,490	
North Arcot ..	Vellore	54	..	Mango, palmyra, tamarind	503·93	375	890	
	Palmaner	133	..	Mango, palmyra, iluppai, tamarind, cocoanut and casuarina	192·98	348	21,923	
	Head-Quarter	412	..	Mango, tamarind, iluppai and palmyra	46	137	5,533	
	Chendragiri	42	..	Date, tamarind, mango, cocoanut and palmyra ..	..	292	292	
		641	..	Total ..	742 91	1,152	28,638	
South Arcot ..	No. I. Tiruvannamalai ..	34	..	Tamarind, iluppai, vagai, margosa, mango and katuvagai	118·25	..	..	
	No. II. Tindivanam ..	7	..	Do. do. do. ..	34·73	..	..	
	No. III. Villupuram ..	14	..	Tamarind, iluppai, vagai, margosa, mango, katuvagai, sandal and casuarina	77·00	..	..	
	No. IV. Cuddalore ..	2	..	Tamarind, iluppai, karuvelam, mango and nagai ..	12·00	..	..	
	No. IV. Chidambaram ..	4	..	Karuvelam, portia, tamarind, palmyra and iluppai.	16·51	..	..	
	No. V. Tirukoilur ..	17	..	Tamarind, margosa, iluppai, mango and nagai ..	32·41	..	..	
	No. VI. Kallakurchi ..	9	..	Tamarind, iluppai, margosa, karuvelam and velvelam	66·37	..	..	
	No. VII. Vriddhachalam ..	7	..	Tamarind, palmyra, mango, banian, odiam, konnai.	36·24	..	..	
		94	..	Total ..	393·51	..	8,712	
Salem ..	Salem	64	..	Mango, tamarind, margosa, nagai, iluppai, cocoanut and vagai	633·75	478	58,428	
	Atur	17	..	Cocoanut, tamarind, iluppai and margosa ..	187·10	399	9,314	
	Namakal	16	..	Cocoanut, tamarind, iluppai, margosa, vagai and mango	58 46	320	7,004	
	Tiruchengod	14	..	Mango, cocoanut, tamarind, margosa and iluppai ..	106·91	181	4,498	
	Utankarai	34	..	Tamarind, mango, nim and palmyra	301·34	202	31,414	
	Tirupatur	24	..	Mango, tamarind, iluppai, vagai and palmyra ..	221·97	286	8,654	
	Krishnagiri	21	..	Iluppai, mango, tamarind, margosa, palmyra, karuvelam and nagai	358·04	954	29,093	
	Dharmapuri	31	..	Tamarind, mango, iluppai and sandalwood ..	492·46	572	17,023	In 1886-87, the return shows 47 new topes, area 385·47, also 12 topes which were entered in 1885-86 are omitted in 1886-87, their area being 73·54 acres. The area of other topes entered in this year is increased by 234 acres in certain cases.
	Hosur	42	..	Casuarina, iluppai, punga, naga, mango and sandalwood	750·15	648	28,699	
		263	..	Total ..	3,110·20	4,040	194,127	

Annual list of topes—*continued.*

District.	Range.	Number	Name of tope.	Chief trees	Area	Cost during year	Cost to end of year	Remarks
					ACRES	RS	RS	
Trichinopoly ..	Trichinopoly	6	..	Mango and iluppai	31 24	57	1,311	
	Kulitalai	6	..	Tamarind and ussu	14 94	..	168	
	Musiri	2	..	Mango	4 25	..	..	
	Perambalur	1	..	Do.	9 12	..	292	
	Udayarpalaiyam	1	..	Do	2	..	..	
		16	..	Total ..	61 55	57	1,771	
Tanjore ..	Tanjore	16	..	Cocoanut and mango	153	..	..	
North Coimbatore	Satyamangalam . ..	3	..	Palmyra	20 79	..	2,328	
	Kollegal	4	..	Tamarind and karuvelam	303 07	..	576	
	Bhavani	26	.	Palmyra, mango and karuvelam	372 34	..	1,799	
	Erode	52	.	Palmyra, velvelam, cocoanut and margosa ..	614 11	77	12,975	
	Dharapuram	76	..	Palmyra, tamarind, velvelam and karuvelam ..	12,483 19	14	14	
	Karur	22	.	Palmyra, cocoanut and tamarind	246 88	..	10,882	
		183	..	Total .	*14,040 38	91	28,574	
South Coimbatore	Palladam	6	..	Velvelam, sandal, teak, palmyra and karuvelam ..	100 79	..	5,197	
	Coimbatore	2	.	Cocoanut trees	12 21	159	699	
		8	.	Total .	113 00	159	5,896	
Madura ..	No I Periyakulam ..	9	..	Tamarind, margosa, iluppai, vagai, naval, bamboo, sandalwood and mahogany	20 5	120	5,597	One experimental garden added during the year
	No II Kodaikanal .	3	..	Tamarind, iluppai, margosa, vagai, marudai and mahogany	9 30	67	1,183	Do. do
	No III Dindigul . ..	8	..	Tamarind, margosa, iluppai, vagai and velvelam ..	47 51	.	3,740	
	No IV Melur .	3	..	Tamarind, margosa, vagai, iluppai and mango ..	23 5	215	849	Do do
				Add cost of temporary establishment .. .	..	1,050	1,050	
		23	..	Total .	100 81	1,452	12,419	
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind, gooseberry and palmyra ..	34 78	108	430	
	Tenkarai	1	..	Cocoanut, mango, jack and orange	98	..	185	
	Otapidaram . .	2		Bamboo, casuarina and iluppai	11 44	.	328	
	Satur	2	.	Bamboo and tamarind	2 99	55	454	

* 14,021·71 in the previous report was an arithmetical error.

Annual list of topes—*continued.*

District	Range	Number	Name of tope.	Chief trees	Area.	Cost During year	Cost To end of year	Remarks.
					ACRES	RS	RS	
Tinnevelly—*cont.*	Sankaranainarkovil ..	5		Mango, iluppai, bamboo and jack	15 21 — 1 28	..	731 — 75	
	Tenkasi	8	..	Margosa, vagai, marudai and casuarina ..	14 45	..	503	
	Ambasamudram	3	.	Margosa, marudai, vagai, iluppai and tamarind ..	9	24	504	
	Nanguneri .. .	4	..	Mango, bamboo, banian and margosa	19 43	187	868	
		29	..	Total ..	107 00	374	3,928	
				Deduct amount not adjusted under VIII *(d)* during the year	..	50	50	
					..	324	3,878	
Malabar (Wynaad and Pálghat).	Wynaad sub-division ..	1	..	Eucalyptus, cære rubber, chincona, mahogany, sappan and ficus elastica, &c	2 50	425	1,799	
	Pálghat	2	..	Mango, jack trees and pongamia glabra .. .	3	..	.	
				Add amount transferred by the Examiner from VIII *(f)* to VIII *(d)*.	..	9	9	
		3	..	Total ..	5 50	434	1,808	
Malabar (Nilambúr)	....	..	..	.	..	..	..	
South Canara ..	....	..	..	.... .	..	..	..	
		1,264	..	Grand Total ..	18,908 63	7,921	292,313	

ABSTRACT.

District.	Range.	Number	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACRES.	RS.	RS.	
Chingleput ..	....	8	..	....	80·77	212	7,490	
North Arcot ..	....	641	..	....	742·91	1,152	28,638	
South Arcot ..	....	94	..	....	393·51	..	8,712	
Salem	....	263	..	....	3,110·20	4,040	1,94,127	
Trichinopoly ..	....	16	..	....	61·55	57	1,771	
Tanjore.. ..	....	16	..	....	153	..	..	
North Coimbatore.	....	183	..	....	14,040·38	91	28,574	
South do. ..	....	8	..	....	113·00	159	5,896	
Madura	....	23	..	....	100·81	1,452	12,419	
Tinnevelly ..	....	29	..	....	107·00	324	3,878	
Malabar (Wynaad and Pálghat).	....	3	..	....	5·50	434	1,808	
Malabar (Nilambúr).	....	..	..	....	..	..	..	
South Canara ..	....	..	..	....	..	..	..	
		1,284	..	Grand Total ..	18,908·63	7,921	293,313	

Annual Form No 62.

Forest Department, Madras, Southern Circle

Area of forest tracts protected from fire during 1886-87.

District	Forest tract.	Up to 31st March 1886		During 1886-87				Total cost up to 31st March 1887	Year when protection commenced	Remarks
		Area actually protected	Total cost	Area attempted to be protected	Fires	Area actually protected	Amount expended			
		ACS	RS A P	ACS	ACS	ACS	RS A. P	RS A P		
	Tiruvallur Range									
Chingleput ..	Kambakam	7,350	1,497 0 0	7,350	..	7,350	386 0 0	1,883 0 0	1883-84	
	Total of the District	7,350	1,497 0 0	7,350	..	7,350	386 0 0	1,883 0 0		
	Vellore Range									
North Arcot ..	Carnaticghur Reserve	7,069	1,050 0 0	7,069		7,069	192 0 0	1,242 0 0	1881	
	Tellai do	15,119	1,098 0 0	15,121	49	15,072	174 0 0	1,272 0 0		
	Ambur fuel do .	3,840	753 0 0	3,840	35	3,805	168 0 0	921 0 0	1879	
	Palamadi do ..	6,400	311 0 0	6,400	80	6,320	80 0 0	391 0 0	1880	
	Chandragiri Range									
	Napier Reserve	8,772	872 0 0	8,772	306	8,466	165 0 0	1,037 0 0	1880	
	Mamandur Reserve ..	1,776	1,072 0 0	1,776	592	1,184	101 0 0	1,173 0 0	1874	
	Chamala do	9,600	141 0 0	9,600		9,600	64 0 0	205 0 0	1880	
	Panapak do . ..	6,400	88 0 0	6,400		6 400	69 0 0	157 0 0	1880	
	Pudipatlabail do ..	2,560	104 0 0	2,560		2 560	54 0 0	158 0 0	1880	
	Paradarami do	15,242	134 0 0	15,242	320	14,922	37 0 0	171 0 0	1880	
	Airala do . ..	6,400	149 0 0	6,400	.	6,400	30 0 0	179 0 0	1880	
	Chittur do ..	360	135 0 0	360		360	20 0 0	155 0 0	1882	
	Santapet do .	2,276	26 0 0	2,277	..	2,277	15 0 0	41 0 0	1882	
	Bommasamudram Reserve .	1,426	42 0 0	1,426		1,426	37 0 0	79 0 0	1884	
	Chilapalle Reserve .	1,266	25 0 0	1,296		1,296	16 0 0	41 0 0	1884	
	Kinatipalle do .	1,417	12 0 0	1,417	..	1,417	17 0 0	29 0 0	1884	
	Palmaner Range									
	Mortana Reserve .	16,000	404 0 0	16,000		16 000	112 0 0	516 0 0	1884	
	Musalimadugu Reserve	9,600	84 0 0	9,600		9 600	48 0 0	132 0 0	1884	
	Peddur do	9,597	283 0 0	9,600		9,600	140 0 0	423 0 0	1880	
	Basavareddipalle Reserve ..	10,240	72 0 0	10,240	..	10,240	48 0 0	120 0 0	1884	
	Ambur Drug do.	5 760		5 760	.	5,760	15 0 0	15 0 0	1880	
	Naikaneri do ..	6,400	260 0 0	6,400	.	6,400	122 0 0	382 0 0	1884	
	Head-Quarter Range									
	Punganur Reserve ..	3,743	806 0 0	3,743	401	3,342	193 0 0	999 0 0	1884	

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
North Arcot—*cont.*	***Vellore Range.***									
	Puttur Reserve ..	12,800	375 0 0	12,800	..	12,800	..	375 0 0	1879	
	Patrakad do. ..	19,200	751 0 0	19,200	..	19,200	..	751 0 0	1881	
	Virappanur do. ..	..	..	64,000	..	64,000	..	..	1886	
	Kapalur do. ..	1,267	..	1,267	..	1,267	..	..	1884	
	Kelur do. ..	3,537	..	3,537	..	3,537	..	..	1884	
	Alliyamangalam do. ..	10,062	..	10,062	..	10,062	..	..	1884	
	Ammerdi plantation.. ..	25	..	25	..	25	..	..	1884	
	Ambur do.	5	..	5	..	5	..	..	1884	
	Chandragiri Range.									
	Penamur Reserve	6,400	..	6,400	..	6,400	..	..	1880	
	Gazulamandiyam Reserve ..	250	..	250	..	250	..	..	1884	
	Palmaner Range.									
	Vikramasi Reserve	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation ..	435	..	435	..	435	..	..	1884	
	Virinjipuram do. ..	260	..	260	..	260	..	..	1884	
	Ammundi do. ..	160	..	160	..	160	..	..	1884	
	Palmaner do. ..	2	..	2	..	2	..	..	1884	
	Nagamangalam do. ..	31	..	31	..	31	..	..	1884	
	Piduguvaripalle do. ..	20	..	20	..	20	..	..	1884	
	Venkatagirikota do. ..	4	..	4	..	4	..	..	1884	
	Baireddipalle do. ..	4	..	4	..	4	..	..	1884	
	Chainur do. ..	130	..	130	..	130	..	..	1884	
	Tandrayagunta do. ..	2	..	2	..	2	..	..	1884	
	Head-Quarter Range.									
	Kilminnel plantation ..	112	..	150	..	150	..	..	1884	
	Satur Reserve do. ..	1,048	..	1,048	..	1,048	..	..	1884	
	Sennaleri do. ..	356	..	1,675	..	1,675	..	..	1884	
	Enadavadi do. ..	1,566	..	1,567	..	1,567	..	..	1884	
	Tandalappentangal do. ..	1,154	..	1,112	..	1,112	..	..	1884	
	Sholavaram do. ..	1,281	..	1,232	..	1,232	..	..	1884	
	Pennar do. ..	939	..	939	..	939	..	..	1880	
	Venkundram do. ..	1,288	..	1,288	..	1,288	..	..	1880	
	Badur do. ..	873	..	873	..	873	..	..	1880	
	Nambedu do. ..	720	..	720	..	720	..	..	1880	
	Kodiyalam do. ..	125	..	125	..	125	..	..	1880	
	Nedungal do. ..	3,645	..	3,645	..	3,645	..	..	1883	
	Vishamangalam do. ..	1,148	..	1,148	..	1,148	..	..	1883	
	Nedungunam do. ..	1,797	..	1,797	..	1,797	..	..	1883	
	Bramhakateri do. ..	635	..	635	..	635	..	..	1883	
	Gudalur do. ..	N 535	..	535	..	535	..	..	1880	

Area of forest tracts protected from fire during 1886-87—*continued.*

District	Forest tract	Up to 31st March 1886		During 1886 87				Total cost up to 31st March 1887	Year when protection commenced	Remarks
		Area actually protected	Total cost	Area attempted to be protected.	Fires	Area actually protected	Amount expended			
		ACS.	RS A P	ACS.	ACS	ACS	RS A P	RS A P		
North Arcot—*cont*	Kolatúr plantation ..	1,779	..	1,779	..	1,779	..		1884	
	Ammanur do	203	..	203	2	201	..	..	1880	
	Uriur or Anantapuram plantation	540	.	540	.	540		..	1880	
	Banavaram plantation	1,085	47 0 0	1,051	..	1,051	.	47 0 0	1880	
	Ammur do	6,020	.	6,020	700	5,320	..	.	1884	
	Minnel do.	1,378	..	1,378	..	1,378	..	..	1884	
	Vannivedu do	30	.	30	..	30	..		1884	
	Arkonam do	37	.	37	..	37	..	..	1884	
	Arkonam Sub-Magistrate's compound	5	..	5	..	5	..	..	1884	
	Arkónam Head Assistant Collector's compound.	..	..	4	..	4	..	..	1884	
	Tengal	250	..	250	..	250	..	.	1884	
	Total of the District ..	234,567	9,111 0 0	299,840	2,485	297,355	1,917 0 0	11,028 0 0		
	Tiruvannámalai Range									
South Arcot	Annámalai reserved forest	1,760		1,760	150	1,610			From dry season, 1878, inclusive	
	Do other forests ..	600		..	.				do	
	Kavutumalai	6,000		6,000	45	5,955			1878	
	Tenmalai	19,800		20,000	13,000	7,000			1877	
	Mudinai	4,000		4,000	.	4,000			1883	
	Damarakadu .. .	7,880		8,000	300	7,700			1884	
	Chinnasamudram ..	6,300		6,000	..	6,000			1878	
	Javadi slopes above Arasangani and over the Chinnasamudram	2,000		..	..	..			1885-86	
	Pelamaratur .. .	8,000	1,966	..	..	.	1,224 0 0	3,190 0 0	..	
	Nallapattu	7,000		.	..				.	
	Valasalmalai ..	7,000		7,000	50	6,950			1883-84	
	Perungkolatúr Swami Malai including 2,000 acres in Kallakurchi taluk	11,000		9,000	..	9,000			1883-84	
	Kallakurchi Range									
	Tagarai, Latchmipuram, Kalrayan slopes unreserved.	14,970		15,000	700	14,300			1883-84	
	Kanai Moyamalai . ..	2,000		..	..	.			1885-86	
	Pangam Kandatimalai ..	1,000		1,000	..	1,000			1885-86	

Area of forest tracts protected from fire during 1886-87—*continued*

District	Forest tract	Up to 31st March 1886		During 1886-87				Total cost up to 31st March 1887	Year when protection commenced	Remarks
		Area actually protected.	Total cost.	Area attempted to be protected	Fires	Area actually protected	Amount expended			
		ACS	RS A P	ACS	ACS	ACS	RS A P	RS A P		
South Arcot—*cont*	Pevalam Peramatalmalai	1,000				..				
	Rangappanur	2,000			.			..		
	Total of the District	102,310	1 966 0 0	77,760	14,245	63,515	1,224 0 0	3,190 0 0		
	Salem Range									
Salem	Vadagampatti blocks of Kanavaipudur reserved land	1,976	1,082 0 0	1,976	.	1,976	311 0 0	1,393 0 0	1881	
	Morur block of Lokur reserved land	799	506 0 0	799		799	198 0 0	704 0 0	1881	
	Mallapuram block of Mallapuram reserved land.	587	510 0 0	587	..	587	214 0 0	724 0 0	1881	
	Ammanur block of Lokur reserved land	252	178 0 0	252	..	252	46 0 0	224 0 0	1882	
	Pelapallikombai block of Pellapalli reserved land.	981	356 0 0	981		981	71 0 0	427 0 0	1882	
	Kariyappakombai block of Jarimalai and Kanavaiputur reserved land.	531	260 0 0	531	..	531	40 0 0	300 0 0	1882	*Salem Range* Map area 10,537 acres Outline 58 miles Interior lines . 13¼ ,, New lines 2¼ ,,
	Kanjiri block of Kanjiri reserved land	1,929	217 0 0	1,929		1,929	139 0 0	356 0 0	1883	*Fire traced* First 2½ miles Renewed .. 71¼ ,,
	Pannikaradu block of Kanjiri and Pannikaradu new reserved lands	2,645	950 0 0	2,645	..	2,645	133 0 0	1,083 0 0	1883	
	Karuvattuparai block of Karuvattuparai reserved land	837	561 0 0	837		837	85 0 0	646 0 0	1884	Total 73½
	Total	10,537	4,620 0 0	10,537	.	10,537	1,237 0 0	5,857 0 0		Cost per mile Rs 16 13 3
	Uttankarai Range									*Uttankarai Range* Map area 4 269 acres Outline . 19½ miles Interior lines 8½ ,,
	Uttankarai block of Uttankarai reserved land	469	307 0 0	469	..	469	66 0 0	373 0 0	1881	*Fire traced* First 1½ miles Renewed 25½ ,,
	Singarapet block of Singarapet reserved land	2,623	1,207 0 0	2,624	100	2 524	145 0 0	1,352 0 0	1881	
	Harur block of Harur reserved land.	1,174	556 0 0	1,176	..	1,176	105 0 0	661 0 0	1882	Total 26½ ,,
	Total	4,266	2,070 0 0	4,269	100	4,169	316 0 0	2,386 0 0		Cost per mile Rs 11 13 3 ,, acre Rs. 0 1 2½

Area of forest tracts protected from fire during 1886-87—*continued.*

District	Forest tract	Up to 31st March 1886. Area actually protected.	Up to 31st March 1886. Total cost	During 1886-87 Area attempted to be protected	Fires.	Area actually protected	Amount expended	Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		ACS.	RS A. P	ACS	ACS.	ACS	RS A. P	RS A P		
	Tirupatúr Range.									*Tirupatur Range*
	Kolatúr block of Nagalutu reserved land	1,213	86 0 0	1,213	..	1,213	42 0 0	128 0 0	1885	Map area .. .. 1,213 acres Outline .. . 9 miles. Interior lines . . *Fire traced* First .. . . Renewed .. 5½ miles. Total 5½ ,,
	Total ..	1,213	86 0 0	1,213		1,213	42 0 0	128 0 0		Cost per mile .. Rs 7 11 5 Cost per acre .. ,, 0 0 6½
	Krishnagiri Range									*Krishnagiri Range*
	Begur block of Begur reserved land	220	151 0 0	220	73	147	107 0 0	258 0 0	1883	Map area .. . 1,788 acres Outline .. .. 13 miles. Interior lines .. .. 3½ ,,
	Padur block of Kotur reserved land	1,069	519 0 0	1,069	..	1,069	116 0 0	635 0 0	1883	*Fire traced.* First .. .. .. Renewed .. . 10 miles
Salem—[illegible] ..	Togarapalli block of Togarapalli reserved land.	499	97 0 0	499	..	499	..	97 0 0	1884	Total .. 10 ,,
	Total ..	1,788	767 0 0	1,788	73	1,715	223 0 0	990 0 0		Cost per mile Rs 22 4 6 ,, acre .. ,, 0 2 1
	Hosúr Range									*Hosúr Range*
	Meilgiri block of Aiyur and Marandahalli reserved lands	5,461	..	5,461	30	5,431	240 0 0	240 0 0	1885	Map area .. .. 13,172 acres Outline .. .. 42½ miles. Interior lines .. ..
	Kanavikotapalli block of Gulhatti new and Tolavabetta reserved land	742	34 0 0	742	.	742	52 0 0	86 0 0	1885	*Fire traced* First .. .. 38½ miles. Renewed .. .. 4 ,,
	Gulhatti block of Gulhatti new reserved land.	3,248	..	3,248	..	3,248	171 0 0	171 0 0	1885	Total .. 42½ ,,
	Munchi block of Munchi new reserved land	3,305	..	3,305	..	3,305	220 0 0	220 0 0	1885	Cost per mile .. Rs 17 8 9 ,, acre .. ,, 0 0 11
	Kanavanagasundrum block of Tolavabetta reserved land	416	28 0 0	416	160	316	60 0 0	88 0 0	1885	*Salem District*
	Total ..	13,172	62 0 9	13,172	130	13,042	743 0 0	805 0 0		Map area .. .. 30,979 acres. Outline .. .. 142 miles. Interior lines .. .. 25½ ,, New lines .. .. 2½ ,, *Fire traced.* First .. .. 42 miles. Renewed .. .. 116½ ,, Total .. 158½ ,,
	Total of the District .	30,976	7,605 0 0	30,979	303	30,676	2,561 0 0	10,166 0 0		Cost per mile traced .. Rs 16 2 11 ,, acre of block .. ,, 0 1 4 Proportion of failure to whole area = 1 per cent

Area of forest tracts protected from fire during 1886-87—*continued.*

District	Forest tract	Up to 31st March 1886		During 1886-87.				Total cost up to 31st March 1887	Year when protection commenced	Remarks
		Area actually protected	Total cost	Area attempted to be protected	Fires.	Area actually protected	Amount expended			
	Musiri Range.	ACS	RS A P	ACS.	ACS.	ACS	RS A. P	RS. A P		
Trichinopoly ..	Sengatupatti ..	3,000	32 0 0	3,000	(a) 60	* 2,940	12 0 0	44 0 0	1885-86	(a) The fire did not do much material damage, as it was principally confined to grass land
	Melur	3,000	38 0 0	3,000	..	* 3,000	11 0 0	49 0 0	..	
	Perambalur Range									
	Manalodai ..	4,000	37 0 0	4,000	..	* 4,000	3 0 0	40 0 0	..	
	Solamadi	7,000	677 0 0	7,000	..	* 7,000	(b) 163 0 0	840 0 0	..	(b) 24¼ miles of fire lines were cut.
	Total of the District	17,000	784 0 0	17,000	60	16,940	189 0 0	973 0 0		
Tanjore ..	.....				*Nil*					
	SPECIAL									
	Kollegal Range									
Coimbatore, (North)	I Jadatalahalla	361	96 0 0	361	..	361	91 0 0	187 0 0	1884-85	
	II Udayárpálaiyam	297	45 0 0	297	..	297	82 0 0	127 0 0	1884-85	
	III Bailur ..	1,186	218 0 0	1,186	.	1,186	124 0 0	342 0 0	1879-80	
	GENERAL									
	Satyamangalam Range									
	IV Gairmalla ..	520	43 0 0	520	..	520	..	43 0 0	1885-86	
	Total of the District ..	2,364	402 0 0	2,364		2,364	297 0 0	699 0 0		
	Tunakadaru Range									
Coimbatore, (South).	I Anaimalai	.	1,028 0 0	2,630	350	2,280	209 0 0	1,237 0 0	1882-83	
	II Punachi ..	3,140	678 0 0	3,140	..	3,140	141 0 0	819 0 0	1882-83	
	Udamalpet-Pálár .	485	188 0 0	485		485	42 0 0	230 0 0	1883-84	
	Bolampatti blocks I and II ..	6,400	412 0 0	6,400	..	6,400	283 0 0	695 0 0	1884-85	
	Sholakarai-Sholakarai .	1,292	935 0 0	1,650	10	1,640	115 0 0	1,050 0 0	1883-84	
	Total of the District ..	11,317	3,241 0 0	14,305	360	13,945	790 0 0	4,031 0 0		
	SPECIAL									
	RESERVED FORESTS									
	No I or Periyakulam Range									
Madura ..	Vannattiparai .. .	27,145	405 0 0	27,481	645	26,836	387 0 0	792 0 0	1884-85	Includes teak plantation.
	Suranganar	3,616	12 0 0	3,616	10	3,606		12 0 0	1885-86	
	Melagudalur ..	980	16 0 0	1,280		1,280		16 0 0	1885-86	

* Approximate.

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	No. I or Periyakulam Range—cont.									
	Pandaratorai	..	..	300	..	300	100 0 0	100 0 0	1886-87	
	Machaiyal	..	..	2,560	720	1,840	156 0 0	156 0 0	1886-87	
	Pambar	4,709	1,510 0 0	4,755	3,003	1,752	734 0 0	2,244 0 0	1883-84	
	Sengalvarai	5,210	43 0 0	5,209	..	5,209	115 0 0	158 0 0	1885-86	
	No. II or Kodaikánal Range.									
	Pumbarai and Vilpati valley Velaiankombai plantation.	13,561	172 0 0	13,587	320	13,267	571 0 0	743 0 0	1885-86	
	Kudriaiar and Kukal reserve..	..	..	19,704	640	19,064	81 0 0	81 0 0	1886-87	
	No. III or Dindigul Range.									
	Sirumalai	13,405	578 0 0	25,529	20	25,509	329 0 0	907 0 0	1885-86	
	Mudimalai	6,086	127 0 0	6,086	..	6,086	167 0 0	294 0 0	1884-85	
	No. V or Madura Range.									
	Alagarmalai	13,031	4,862 0 0	13,036	250	12,786	698 0 0	5,560 0 0	1882-83	
	RESERVED LANDS.									
	No. I or Periyakulam Range.									
Madura—*cont.*	Murugamalai	3,227	338 0 0	3,227	10	3,217	202 0 0	540 0 0	1884-85	
	No. II or Kodaikánal Range.									
	Arrankanal* and Pannakad ..	5,120	283 0 0	2,560	150	2,410	163 0 0	446 0 0	1884-85	
	Perumalmalai	7,700	674 0 0	7,700	200	7,500	487 0 0	1,161 0 0	1883-84	
	Kallar	9,600	42 0 0	9,600	200	9,400	277 0 0	319 0 0	1885-86	
	No. V or Madura Range.									
	Vaggatumalai	4,200	258 0 0	4,200	..	4,200	176 0 0	434 0 0	1884-85	
	Kachakattai	1,694	..	1,694	..	1,694	30 0 0	30 0 0	1884-85	
	GENERAL.									
	RESERVED FORESTS.									
	No. II or Kodaikánal Range.									
	Kodaikánal scattered plantation.	3	6 0 0	3	..	3	6 0 0	12 0 0	1883-84	
	Do. Acacia	5	4 0 0	5	..	5	3 0 0	7 0 0	1883-84	
	Pumbarai	6	3 0 0	6	..	6	..	3 0 0	1883-84	
	Parapar	42	11 0 0	42	..	42	11 0 0	22 0 0	1884-85	
	Gundanahola		..	54	..	54	14 0 0	14 0 0	1886-87	

* This is the same as Pannakad galnut tracts. The extent is shown twice over at the commencement of the year. Therefore 2,560 acres have been omitted.

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886.		During 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	OTHER FORESTS.									
	No. I or Periyakulam Range.									
Madura—*cont.*	Ambruvu	..	..	3,840	..	3,840	17 0 0	17 0 0	1886-87	
	Total of the District ..	119,340	9,344 0 0	156,074	6,168	149,906	4,724 0 0	14,068 0 0		
	SOUTHERN RANGE.									
	Ambásamudram.									
	Block between Sarveyar and Kariyar rivers, Pápanásam Hills.	10,477	1,473 0 0	10,477	..	10,477	710 0 0	2,183 0 0	1884-85	
	Block of forests between Sarveyar, Kinampannai, Teri and Muttirimottai, Pápanásam Hills.	1,200	158 0 0	1,200	20	1,180	112 0 0	270 0 0	1885-86	
	Aíwarkurichi	..	..	7,690	..	7,690	387 0 0	387 0 0	1886-87	
	Nángunéri.									
	Block of forests in Kalakod ..	8,145	538 0 0	8,320	..	8,320	373 0 0	911 0 0	1885-86	
	New block	..	..	12,160	850	11,310	496 0 0	496 0 0	1886-87	
Tinnevelly	NORTHERN RANGE.									
	Tenkási.									
	Boundary line between Chokkampatti and Government forests.	3 miles.	54 0 0	3 miles.	..	3 miles.	91 0 0	145 0 0	1885-86	
	Boundary line between Vairavankulam and Government forests.	10 ,,	180 0 0	10 ,,	..	10 ,,	130 0 0	310 0 0	1885-86	
	Sankaranainárkoil.									
	Boundary line between Tirumalai Naicken Pudukudi and Government forests.	3 ,,	9 0 0	3 ,,	..	3 ,,	21 0 0	30 0 0	1885-86	
	Total of the District ..	19,822 + 16 miles.	2,412 0 0	39,847 + 16 miles.	870	38,977 + 16 miles.	2,320 0 0	4,732 0 0		
	Wynaad.									
Malabar (Wynaad and Pálghat.)	Begur	9,926	1,438 0 0	15,366	4	15,362	709 0 0	2,147 0 0	1882-83	
	Pálghat.									
	Wálayár	3,017	3,567 0 0	3,017	..	3,017	422 0 0	3,989 0 0	1873-74	
	Chenat Nair	2,520	273 0 0	12,252	300	11,952	152 0 0	425 0 0	1884-85	
	Total of the District ..	15,463	5,278 0 0	30,635	304	30,331	1,283 0 0	6,561 0 0		

Area of forest tracts protected from fire during 1886-87—*continued.*

District.	Forest tract.	Up to 31st March 1886. Area actually protected.	Up to 31st March 1886. Total cost.	During 1886-87. Area attempted to be protected.	During 1886-87. Fires.	During 1886-87. Area actually protected.	During 1886-87. Amount expended.	Total cost up to 31st March 1887.	Year when protection commenced.	Remarks
	Special.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
Malabar (Nilambúr.)	Karimpoya reserve	3,955	192 0 0	3,955	..	3,955	116 0 0	308 0 0	1884-85	
	Amarampulam ,, ..	409	151 0 0	468	..	468	60 0 0	211 0 0	1860-61	
	Chatamborai ,, ..	499	64 0 0	700	..	700	59 0 0	123 0 0	1872-73	
	Nellikutta ,, ..	1,824	288 0 0	1,824	..	1,824	124 0 0	412 0 0	1883-84	
	Teak plantations	2,493	926 0 0	2,500	..	2,500	373 0 0	1,299 0 0	1842-43	
	Total of the District ..	9,180	1,621 0 0	9,447	..	9,447	732 0 0	2,353 0 0		
	Special.									
	Udipi Range.									
South Canara.	Chinkramale	..	88 0 0	2,560	33	2,527	146 0 0	234 0 0	1885-86 and 1896-87	
	Manaji	..	..	1,280	50	1,230	98 0 0	98 0 0	1886-87	
	Tenkahola	..	..	1,920	..	1,920	47 0 0	47 0 0	1886-87	
	Total ..	..	88 0 0	5,760	83	5,677	291 0 0	379 0 0		
	General.									
	Coondapoor Range.									
	Sabladi	187	6 0 0	208	..	208	39 0 0	45 0 0	1884-85	
	Sarpanamanekadu	..	..	30	..	30	16 0 0	16 0 0	1886-87	
	Udipi Range.									
	Pillarkan	318	22 0 0	320	2	318	11 0 0	33 0 0	1883-84	
	Mangalore Range.									
	Chembugudde	75	9 0 0	75	..	75	5 0 0	14 0 0	1884-85	
	Kuttiyar	25	6 0 0	25	..	25	3 0 0	9 0 0	1884-85	
	Poitagi and Kayarpalla ..	93	5 0 0	96	..	96	10 0 0	15 0 0	1885-86	
	Kásaragód Range.									
	Parappa	115	107 0 0	115	..	115	13 0 0	120 0 0	1882-83	
	Total ..	813	155 0 0	869	2	867	97 0 0	252 0 0		
	Total of the District ..	813	243 0 0	6,629	85	6,544	388 0 0	631 0 0		
	Grand Total ..	570,502 + 16 miles.	43,504 0 0	692,230 + 16 miles.	24,880	667,350 + 16 miles.	16,811 0 0	60,315 0 0		

Charged in previous years	28,653 0 0
Do. 1885-86 ..	14,851 0 0
Do. 1886-87 ..	16,811 0 0
Total ..	60,315 0 0

Abstract.

District.	Up to 31st March 1886		During 1886-87				Total cost up to 31st March 1887
	Area actually protected.	Total cost	Area attempted to be protected.	Fires	Area actually protected.	Amount expended	
	ACRES	RS	ACRES.	ACRES.	ACRES.	RS	RS
Chingleput	7,350	1,497	7,350	..	7,350	386	1,883
North Arcot	234,567	9,111	299,840	2,485	297,355	1,917	11,028
South Arcot	102,310	1,966	77,760	14,245	63,515	1,224	3,190
Salem	30,976	7,605	30,979	303	30,676	2,561	10,166
Trichinopoly	17,000	784	17,000	60	16,940	189	973
North Coimbatore	2,364	402	2,364	..	2,364	297	699
South Coimbatore	11,317	3,241	14,305	360	13,945	790	4,031
Madura	119,340	9,344	156,074	6,168	149,906	4,724	14,068
Tinnevelly	19,822	2,412	39,847	870	38,977	2,320	4,732
Malabar (Wynaad and Pálghat)	15,463	5,278	30,635	304	30,331	1,283	6,561
Malabar (Nilambúr)	9,180	1,621	9,447	..	9,447	732	2,353
South Canara	813	243	6,629	85	6,544	388	631
Total ..	570,502	43,504	692,230	24,680	667,350	16,811	60,315

ANNUAL FORM No. 63.

Forest Department, Madras, Southern Circle.

Prosecutions for Breaches of Forest Rules during 1886-87.

District.	Cases pending from 1885-86.	New cases of the year					Total cases	Disposed of during the year								Cases pending at close of year
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce	Grazing without permission or in tracts in which grazing is prohibited	Other offences	Total new cases of the year		Convictions		Acquittals		Compounded		Total.		
								Cases.	Persons	Cases	Persons	Cases	Persons	Cases.	Persons	
Chingleput—under the Indian Penal Code	..		9	1	.	10	10	9	67	1	15	..	..	10	82	..
North Arcot	* 3	8	88	40	5	141	144	76	176	59	195	4	13	139	384	5
South Arcot . ..	3	..	32	7	14	53	56	21	63	10	45	5	6	36	114	20
Salem	47	5	205	14	20	244	291	42	119	31	107	139 † 24	431	236	657	55
Trichinopoly . ..	3	3	56	1	149	209	212	39	76	20	70	145	145	204	291	8
Tanjore	1	..	125	17	..	142	143	82	91	14	14	22	..	118	105	25
North Coimbatore	.	2	4	63	12	81	81	63	103	18	34	..	..	81	137	..
South Coimbatore	..	1	11	5	7	24	24	11	25	2	24	5	18	18	67	6
Madura .. Under the Forest Act ..	10	10	62	6	22	100	110	65	210	36	99	..	.	101	309	9
Madura .. Under the Penal Code	..	..	7	1	2	10	10	6	16	3	15	.	..	9	31	1
Madura .. Total ..	10	10	69	7	24	110	120	71	226	39	114	..	..	110	340	10
Tinnevelly. Under the Forest Act	1	10	8	1	..	19	20	6	24	3	13	11	18	20	55	..
Tinnevelly. Under the Penal Code	2	..	54	..	8	62	64	55	91	5	14	..	..	60	105	4
Tinnevelly. Total ..	3	10	62	1	8	81	84	61	115	8	27	11	18	80	160	4
Malabar (Wynaad and Pálghát)	.	4	13	5	5	27	27	16	24	3	4	3	3	22	31	5
Malabar (Nilambúr) . ..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
South Canara . ..	24	1	211	..	5	217	241	83	146	38	99	102	141	223	386	18
Total ..	94	44	885	161	249	1,339	1,433	574	1,231	243	748	460	775	1,277	2,754	156

* Omitted by the District Forest officer in the return for 1885-86 but now entered
† Withdrawn

ANNUAL FORM *No.* 64.

Forest Department, Madras, Southern Circle.

SUMMARY of Revenue of the different Districts, 1886-87.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North, Coimbatore.
1	2	3	4	5	6	7	8	9
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—								
(*a*) Timber	..	1,378 3 1	1,507 8 0	3,221 1 9	1,684 10 6	68 9 0	..	24 10 0
(*b*) Firewood and charcoal	..	990 0 0	7,423 8 3	6,511 13 6	213 9 6	15,080 13 0	..	..
(*c*) Bamboos	..	..	133 3 6	5 3 0	356 12 0	10 4 0	..	..
(*d*) Sandalwood	..	..	4,595 11 5	157 3 0	304 8 7	..	..	..
(*e*) Grass and other minor produce	..	1,132 0 0	252 12 0	858 8 8	0 11 0	102 14 0	..	..
II. Timber and other produce removed from the forests by consumers or purchasers—								
(*a*) Timber	..	4,007 13 3	18,037 15 6	4,710 15 5	10,371 8 0	17,573 7 8	240 8 4	4,928 6 6
(*b*) Firewood and charcoal	..	8,834 5 5	41,057 11 5	13,752 9 5	23,229 11 9	5,156 11 4	5,250 12 4	4,693 9 8
(*c*) Bamboos	..	343 7 9	16,123 14 0	3,522 4 9	24,303 9 0	3,172 6 1	69 8 0	9,506 10 0
(*d*) Grazing and fodder grass	..	641 6 9	1,423 0 0	1,306 3 5	24 1 3	2,327 14 3	414 2 0	22,464 11 8
(*e*) Other minor produce	..	1,500 15 8	16,250 10 0	10,130 1 1	55,611 13 3	4,343 8 11	2,620 6 0	32,909 2 0
III. Confiscated drift and waifwood	..	95 12 11	234 3 3	255 12 7	520 4 11	57 1 11	24 15 3	129 13 9
IV. Revenue from forests not managed by Government.	..	..	..	..	..	..	..	..
V. Miscellaneous—								
(*a*) Fines and forfeitures	..	..	..	183 5 3	1 8 0	..	..	.
(*b*) Refunds	101 6 4	3 14 2	2 9 4	10 5 4	8 5 0	14 13 4	..	44 8 0
(*c*) Other sources	50 6 11	215 8 0	200 9 6	241 10 6	452 8 5	..	61 10 9	30 0 0
Total ..	151 13 3	19,143 7 0	107,243 4 2	44,867 1 8	117,083 9 2	47,913 7 6	8,681 14 8	74,731 7 7

Summary of Revenue of the different Districts, 1886-87.

Budget heads.	South Coimbator.	Madura.	Tinnevelly.	Malabar (Wynaad and Pálghat).	Malabar (Nilambúr).	South Canara.	Total.
	10	11	12	13	14	15	16
Receipts.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
I. Timber and other produce removed from the forests by Government agency—							
(a) Timber..	6,456 7 1	572 1 0	8,753 4 8	18,344 0 1	14,862 7 1	9,697 12 4	66,570 10 7
(b) Firewood and charcoal	..	1,653 8 6	..	1,672 13 0	..	153 2 3	33,699 4 0
(c) Bamboos	..	..	268 14 0	69 9 7	1,684 6 2	..	2,528 4 3
(d) Sandalwood	..	..	..	..	..	..	5,057 7 0
(e) Grass and other minor produce	7,154 8 5	..	45 1 9	497 10 5	..	22,401 15 6	32,446 1 9
II. Timber and other produce removed from the forests by consumers or purchasers—							
(a) Timber	10,097 8 5	18,203 7 11	5,886 13 2	2,606 9 0	973 15 1	2,578 6 2	1,00,217 6 5
(b) Firewood and charcoal	11,446 3 3	14,086 10 11	22,944 7 10	426 0 0	..	14,119 13 9	1,64,998 11 1
(c) Bamboos	5,722 15 0	3,396 13 0	870 4 4	511 15 4	151 10 4	500 11 6	68,196 1 1
(d) Grazing and fodder grass	5,241 8 3	1,392 6 0	312 8 0	117 0 0	..	..	35,664 13 7
(e) Other minor produce	8,195 7 7	22,041 11 10	14,100 9 0	1,444 4 0	..	1,884 13 3	1,71,038 6 7
III. Confiscated drift and waifwood	103 9 9	624 7 4	342 15 10	6 0 5	..	502 1 5	2,897 3 4
IV. Revenue from forests not managed by Government ..	..	..	..	..	..	..	..
V. Miscellaneous—							
(a) Fines and forfeitures	..	22 12 0	132 4 5	..	278 15 5	22 8 0	641 5 1
(b) Refunds	15 10 0	12 15 9	253 15 2	345 5 2	435 7 9	345 4 7	1,594 7 11
Other sources	512 13 11	52 8 7	661 6 9	1,362 4 0	0 2 0	5,142 15 9	8,984 9 1
Total ..	54,946 11 8	62,059 6 10	54,572 8 11	27,403 7 0	18,386 15 10	57,349 8 6	6,94,534 11 9

Annual Form No. 64.

Forest Department, Madras, Southern Circle.

Summary of Expenditure of the different Districts, 1886-87.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.
1	2	3	4	5	6	7	8	9
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
A.—Conservancy and Works.								
I Timber and other produce removed from the forests by Government agency—								
(a) Timber	..	523 6 0	1,532 6 11	1,542 3 5	1,333 13 7	18 13 0	..	0 4 0
(b) Firewood and charcoal	..	..	1,708 2 10	2,571 13 7	415 7 9	6,972 9 0	..	..
(c) Bamboos	..	..	..	1 0 6	181 13 6	1 8 0	..	..
(d) Sandalwood	1 12 0	..	390 4 10	131 9 10	79 0 9	3 0 0	..	6 13 3
(e) Grass and other minor produce ..	..	65 0 0	..	398 3 1	..	20 0 0	2 0 0	..
II. Timber and other produce removed from the forests by consumers or purchasers ..	3,180 9 9	1,231 5 6	6,247 8 3	2,342 0 4	10,582 2 2	3,767 10 6	272 9 7	6,058 5 0
III. Confiscated drift and waifwood	..	..	25 0 0	6 7 8	12 9 6	..	0 6 0	5 8 0
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	..	..	..	..	..	..	..	..
VI. Live stock, stores, tools and plant—								
(a) Purchase of cattle	..	..	..	..	..	397 8 0	..	..
(b) Feed and keep of cattle	..	..	..	15 3 0	..	699 4 9	..	..
(c) Stores, tools and plant	242 11 8	112 14 0	241 3 6	420 10 4	845 7 0	580 15 0	..	315 10 0
VII. Communications and buildings—								
(a) Roads and bridges	..	351 12 0	1,562 12 3	461 0 6	..	..	..	180 0 0
(b) Buildings	..	131 8 11	1,937 9 11	239 6 6	735 3 1	240 0 0	250 0 0	1,923 3 11
(c) Other works	..	..	..	337 9 9	..	..	..	..
VIII. Demarcation, improvement and extension of forests—								
(a) Demarcation	..	1,402 8 10	345 1 1	578 2 6	1,755 1 8	357 14 6	1 12 0	723 6 8
(b) Compensation for land and rights ..	..	253 0 0	..	1,278 3 0	6,514 4 0	256 7 2	..	131 0 0
(c) Surveys and working plans	228 11 3	..	..	24 8 3	88 13 10	697 13 7	..	76 4 0
(d) Plantations	1,140 14 6	1,425 14 0	7,475 3 8	7,423 7 8	4,040 8 7	4,584 5 9	2,638 11 11	818 12 10
(e) Protection from fire	..	385 8 0	1,917 1 1	1,223 10 1	2,560 15 4	188 9 0	..	296 1 4
(f) Other works	..	1,419 5 6	4,703 14 7	6,234 2 5	2,167 1 9	947 5 8	1,474 6 3	590 4 10
IX. Miscellaneous—								
(a) Refunds	..	1,239 10 4	103 4 3	43 7 6	144 7 6	32 0 0	20 0 0	31 0 0
(b) Law charges	1 0 0	..	..	158 3 8	0 10 0	..	..	..
(c) Other charges	83 6 0	..	6 10 0	26 7 2	99 4 7	..	..	23 14 6
Total A.—Conservancy and Works ..	4,879 1 2	8,541 13 1	28,196 3 2	25,455 8 9	31,556 12 7	19,766 3 11	4,659 13 9	13,180 8 4

Summary of Expenditure of the different Districts, 1886-87—*continued.*

Budget heads.	South Coimbatore.	Madura.	Tinnevelly.	Malabar (Wynaad and Pálgaht).	Malabar (Nilambúr)	South Canara.	Total.
	10	11	12	13	14	15	16
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
A.—*Conservancy and Works.*							
I Timber and other produce removed from the forests by Government agency—							
(a) Timber	12,776 6 8	497 10 2	6,447 1 5	7,490 2 4	13,264 13 9	8,549 2 10	53,976 4 1
(b) Firewood and charcoal	..	705 5 1	15 4 4	66 15 6	..	245 11 0	12,701 5 1
(c) Bamboos	..	..	228 0 0	..	..	..	412 6 0
(d) Sandalwood	..	..	..	..	..	..	612 8 8
(e) Grass and other minor produce ..	5,501 3 0	..	758 0 3	178 12 2	37 8 0	16,522 4 5	23,482 14 11
II Timber and other produce removed from the forests by consumers or purchasers ..	3,580 15 6	5,330 8 0	5,150 1 11	298 8 6	..	3,713 7 10	53,755 12 10
III. Confiscated, drift and waifwood	92 1 3	19 0 11	7 1 0	..	..	2 2 3	168 4 7
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	75,000 0 0	..	..	..	1,053 4 0	..	76,053 4 0
VI. Live stock, stores, tools and plant—							
(a) Purchase of cattle	..	75 0 0	..	..	1,264 9 2	..	1,737 1 2
(b) Feed and keep of cattle	87 2 1	306 10 11	..	2,073 15 8	3,469 0 7	..	6,651 5 0
(c) Stores, tools and plant	38 14 0	82 9 7	777 0 4	279 2 6	467 6 6	555 0 6	4,959 8 11
VII Communications and buildings—							
(a) Roads and bridges	701 3 9	607 6 1	5,134 7 2	333 7 1	191 9 0	..	9,523 9 10
(b) Buildings	5,409 12 7	979 10 1	650 0 7	2,359 15 5	451 15 9	134 12 11	15,443 3 8
(c) Other works	256 3 8	..	20 12 10	405 14 4	..	2 1 0	1,022 9 7
VIII. Demarcation, improvement and extension of forests—							
(a) Demarcation	427 7 5	345 11 4	1,021 12 7	1,199 3 0	..	602 11 5	8,760 13 0
(b) Compensation for land and rights ..	..	..	67 15 5	3,064 0 0	8,263 12 4	..	19,828 9 11
(c) Surveys and working plans	625 2 6	786 6 8	52 8 0	7 8 0	..	139 3 4	2,726 15 5
(d) Plantations	158 12 8	2,060 2 8	324 2 6	1,960 9 3	5,960 4 11	819 0 11	40,830 15 10
(e) Protection from fire	737 4 2	4,724 5 5	2,320 6 8	1,346 12 6	732 5 6	390 3 6	16,823 2 7
(f) Other works	620 5 5	..	4,468 2 4	580 13 0	251 14 10	269 13 0	23,727 9 7
IX. Miscellaneous—							
(a) Refunds	14 10 0	..	221 0 0	20 0 0	..	1,705 7 6	3,575 7 1
(b) Law charges	4 0 0	..	0 8 0	2,589 6 6	..	11 2 0	2,764 14 2
(c) Other charges	24 4 10	..	6 7 0	340 7 0	..	42 6 6	653 3 7
Total A —Conservancy and Works ..	1,06,055 13 6	16,520 6 11	27,670 12 4	24,595 8 9	35,408 8 4	33,704 10 11	3,80,191 13 6

Annual Form No 64

Forest Department, Madras, Southern Circle.

Summary of Expenditure of the different Districts, 1886-87.

Budget heads	Direction	Chingleput	North Arcot	South Arcot	Salem	Trichinopoly	Tanjore	North Coimbatore
1	2	3	4	5	6	7	8	9
B —Establishments	RS A P	RS A P	RS. A P	RS A P.	RS A P	RS A P	RS. A P	RS A P
Brought forward—Total A —Conservancy and Works ..	4,879 1 2	8,541 13 1	28,196 3 2	25,455 8 9	31,556 12 7	19,766 3 11	4,659 13 9	13,180 8 4
I Salaries—								
(a) Conservators	18,051 1 2						..	..
(b) Superior officers .	27,566 6 3	2 927 6 8	6,300 0 0	9,150 0 0	9,690 0 0	7,440 15 6	245 2 7	9,061 7 3
(c) Subordinate forest and depôt establishments	4,955 10 8	2,129 10 0	9,128 15 8	9,187 11 7	12,832 15 7	4,635 0 6	1,220 0 0	5,239 7 1
(d) Office establishments .. .	18,206 4 3	733 10 10	1,907 9 7	1,701 13 11	2,243 11 6	1,363 12 6	440 7 7	1,687 2 9
(e) Deputation and special allowances	.	..	..	..	.	.		
II Travelling Allowances—								
(a) Conservators . ..	3,719 12 0	..	..		..		..	
(b) Superior officers . . .	8,223 13 9	1,405 2 6	1,799 15 0	1,800 0 0	1,420 3 9	1,855 8 7	.	1,800 0 0
(c) Subordinate forest and depôt establishments	2,284 13 11	352 6 9	2,722 0 0	1,871 2 2	3,764 2 4	1,553 2 1	301 12 10	1,666 8 0
(d) Office establishments .	3,295 15 3	138 6 10	224 6 4	262 1 2	250 15 5	98 5 0	79 2 8	193 14 10
III Contingencies—								
(a) Stationery	22 3 4	7 10 8	4 7 0		22 8 2			.
(b) Carriage of tents and records ..	1,239 1 10	58 9 9	100 8 4	171 14 8	211 0 0	20 4 6	18 5 0	112 14 7
(c) Rents, rates and taxes . .	1,450 5 10	.	6 0 0	356 0 0	30 8 0	205 0 0		103 8 0
(d) Pay of police guards .. .	.	..	.					
(e) Official postage	934 7 4	117 15 6	286 5 6	494 13 0	670 13 6	315 11 6	99 4 0	327 14 2
(f) Sundries	2,450 7 2	226 11 10	559 6 3	433 1 8	1,425 6 4	196 12 8	57 14 10	578 0 0
Total B, Establishments ..	92,400 6 9	8,097 11 4	23,039 9 8	25,428 10 2	32,562 4 7	17,675 8 10	2,462 1 6	20,761 10 8
Grand Total of Expenditure	97,279 7 11	16,639 8 5	51,235 12 10	50,884 2 11	64,119 1 2	37,441 12 9	7,121 15 3	33 942 3 0

Budget heads	South Coimbatore	Madura	Tinnevelly	Malabar (Wynaad and Pálghat)	Malabar (Nilambúr)	South Canara	Total
	10	11	12	13	14	15	16
B —Establishments	RS A P	RS A P	RS A P	RS A P	RS A P	RS A P	RS A P
Brought forward—Total A —Conservancy and Works .	1,06,055 13 6	16,520 6 11	27,670 12 4	24,595 8 9	35,408 8 4	33,704 10 11	3,80,191 13 6
I Salaries—							
(a) Conservators		.	.		.		18,051 1 2
(b) Superior officers . .	6,607 15 3	9,752 2 5	5,385 7 9	8,190 0 0	7,974 5 8	5,370 15 6	1,15,362 4 10
(c) Subordinate forest and depôt establishments .	8,806 13 6	7,024 9 6	7,429 5 6	7,197 2 8	2,501 14 3	4,527 5 1	86,807 9 7
(d) Office establishments ..	1,850 0 8	1,630 12 10	1,845 2 11	2,460 5 3	1,322 15 6	1,320 15 2	38,704 13 3
(e) Deputation and special allowances	..	.		.	..		
II Travelling Allowances—							
(a) Conservators		.			.	.	3,719 12 0
(b) Superior officers	1,563 13 11	2,760 14 10	1,076 12 5	1,682 2 3	1 655 11 4	1,440 0 0	28,485 2 4
(c) Subordinate forest and depôt establishments ..	2,438 5 6	1,604 0 0	2,009 6 11	2,211 0 8	685 2 0	1,692 5 8	25,156 2 10
(d) Office establishments	112 2 8	285 5 3	414 15 2	244 12 8	80 8 0	239 13 0	5,920 12 3
III Contingencies—							
(a) Stationery	1 8 0	.	..	0 11 0	..	21 6 0	80 6 2
(b) Carriage of tents and records .	78 2 9	83 15 9	160 4 0	63 4 0	..	225 6 1	2,542 11 3
(c) Rents, rates and taxes	67 8 0	..	16 0 0	300 0 0	..	..	2,534 13 10
(d) Pay of police guards	.				..	.	
(e) Official postage	167 5 6	385 8 0	454 15 0	221 11 0	62 2 0	419 14 0	4,958 12 0
(f) Sundries	397 10 1	330 9 5	417 10 1	468 7 9	64 9 5	297 1 7	7,903 13 1
Total B, Establishments	22,091 5 10	23,857 14 0	19,209 15 9	23,039 9 3	14,347 4 2	15,555 2 1	3,40,529 2 7
Grand Total of Expenditure .	1,28,147 3 4	40,378 4 11	46,880 12 1	47,635 2 0	49,755 12 6	49,259 13 0	7,20,721 0 1

Madras, 2nd July 1887.

C. G. DOUGLAS, Examiner of Forests Accounts.

ANNUAL FORM No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1886-87.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Direction. Conservator's office, Southern Circle ..	..	3,806 10 8	3,806 10 8	152 6 8	4,012 0 1	4,164 6 9	357 12 1	..	
Forest Settlement office, Chingleput, &c.	..	473 12 7	473 12 7	..	513 15 7	513 15 7	40 3 0	..	
Forest school, Dehra Dun, S. C. ..	..	5,403 11 5	5,403 11 5	..	5,582 0 9	5,582 0 9	178 5 4	..	
Forest Settlement office, Salem, &c. ..	..	..	..	..	..	..	..	..	
Three-fifths of Examiner's office ..	..	3,003 11 7	3,003 11 7	46 7 3	2,957 14 3	3,004 5 6	0 9 11	..	
Chingleput	..	9,680 12 8	9,680 12 8	1,494 6 10	9,292 0 3	10,786 7 1	1,105 10 5	..	
North Arcot	..	32,729 5 11	32,729 5 11	408 5 8	32,537 11 4	32,946 1 0	216 11 1	..	
South Arcot	..	34,136 3 11	34,136 3 11	..	34,136 3 11	34,136 3 11	..	..	
Salem	..	36,830 3 9	36,830 3 9	1,399 13 8	36,767 3 8	38,167 1 4	1,336 13 7	..	
Trichinopoly	..	24,750 5 0	24,750 5 0	764 7 2	24,313 3 4	25,077 10 6	327 5 6	..	
Tanjore	..	6,268 3 7	6,268 3 7	42 9 8	6,229 9 11	6,272 3 7	4 0 0	..	
North Coimbatore	..	19,974 9 10	19,974 9 10	2,938 12 4	18,660 1 1	21,598 13 5	1,624 3 7	..	
South Coimbatore	..	1,10,903 8 3	1,10,903 8 3	1,644 8 10	1,13,055 15 5	1,14,700 8 3	3,797 0 0	..	
Madura	..	18,054 7 6	18,054 7 6	2,189 9 4	19,203 4 2	21,392 13 6	3,338 6 0	..	
Tinnevelly	..	29,411 1 0	29,411 1 0	1,117 11 10	30,769 7 1	31,887 2 11	2,476 1 11	..	
Malabar (Wynaad and Pálghat).. ..	..	28,478 6 7	28,478 6 7	1,166 11 0	29,490 5 0	30,657 0 0	2,178 9 5	..	
Malabar (Nilumbúr)	..	7,469 5 10	7,469 5 10	422 7 3	7,572 14 0	7,995 5 3	525 15 5	..	
South Canara	..	34,280 15 9	34,280 15 9	12,603 10 11	32,072 1 6	44,675 12 5	10,394 12 8	..	
Total ..	..	4,05,655 7 10	4,05,655 7 10	26,392 0 5	4,07,165 15 4	4,33,557 15 9	27,902 7 11	..	

MADRAS,
5th July 1887.

C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstanding on account of revenue during 1886-87.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS A. P.
Direction ..	Timber and other produce ..	..	151 13 3	151 13 3	151 13 3	..
Chingleput ..	Do. ..	..	19,143 7 0	19,143 7 0	19,143 7 0	..
North Arcot ..	Do. ..	2,161 8 0	1,08,536 6 2	1,10,697 14 2	1,07,243 4 2	3,454 10 0
South Arcot ..	Do. ..	..	45,034 9 8	45,034 9 8	44,867 1 8	167 8 0
Salem	Do. ..	..	1,17,083 9 2	1,17,083 9 2	1,17,083 9 2	..
Trichinopoly ..	Do. ..	891 12 0	47,781 3 9	48,672 15 9	47,913 7 6	759 8 3
Tanjore	Do. ..	..	8,681 14 8	8,681 14 8	8,681 14 8	..
North Coimbatore..	Do. ..	20,976 3 1	74,174 14 3	95,151 1 4	74,731 7 7	20,419 9 9
South Coimbatore..	Do. ..	2,442 2 2	55,215 11 1	57,657 13 3	54,946 11 8	2,711 1 7
Madura	Do. ..	..	63,520 4 1	63,520 4 1	62,059 6 10	1,460 13 3
Tinnevelly ..	Do. ..	1,451 4 0	54,559 5 4	56,010 9 4	54,572 8 11	1,438 0 5
Malabar (Wynaad and Pálghat) ..	Do. ..	..	27,403 7 0	27,403 7 0	27,403 7 0	..
Malabar (Nilambúr).	Do. ..	5,377 14 10	13,083 8 0	18,461 6 10	18,386 15 10	74 7 0
South Canara ..	Do. ..	..	57,469 8 6	57,469 8 6	57,349 8 6	120 0 0
	Total ..	33,300 12 1	6,91,839 9 11	7,25,140 6 0	6,94,534 11 9	30,605 10 3

MADRAS,
2nd July 1887.

G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1886-87.

District.	Timber and other produce removed from the Forests by Government agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
	Receipts.	Charges.	Receipts	Charges.	Charges.	Receipts.	Charges.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Direction	..	14,755	152	59,980	22,544	152	97,279
Chingleput	3,596	1,980	15,547	7,866	6,785	19,143	16,640
North Arcot	14,147	7,554	93,090	25,045	18,637	1,07,243	51,236
South Arcot	11,010	9,645	33,857	16,601	24,549	44,867	50,885
Salem	3,081	3,294	1,14,003	38,784	22,041	1,17,084	64,119
Trichinopoly	15,320	13,289	32,594	14,506	9,646	47,914	37,441
Tanjore	25	7	8,657	2,020	5,095	8,682	7,142
North Coimbatore	154	53	74,577	28,998	4,891	74,731	33,921
South Coimbatore	13,715	22,753	41,232	12,490	92,904	54,947	1,28,178
Madura	2,850	3,124	59,209	25,915	11,339	62,059	40,324
Tinnevelly	9,411	12,430	45,162	20,906	13,545	54,573	46,867
Malabar (Wynaad and Palghát) ..	20,590	22,910	6,813	5,407	19,319	27,403	47,685
Malabar (Nilambúr)	16,547	26,595	1,840	773	22,387	18,387	49,735
South Canara	32,755	34,062	24,595	12,042	3,156	57,350	49,260
Total ..	1,43,201	1,72,460	5,51,334	2,71,423	2,76,838	6,94,535	7,20,721

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government Agency during the year 1886-87.

(Selection Fellings.)

District.	Range, Forest, or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
			NO.	NO.	NO.		NO.	NO.	NO.	
Chingleput ..	.....	.....	..	..	..	.....	..	..	..	
North Arcot ..	.....	.....	..	..	..	.....	..	..	..	
South Arcot ..	No. I.—Tiruvannamalai range.	Vengai	..	436	436	Converted into logs .. 40 Do. poles .. 462	436	436	..	
		Eruvádi	..	39	39	Do. logs .. 2 Do. poles .. 38	39	39	..	
		Karungali	..	11	11	Do. logs .. 4 Do. poles .. 7	11	11	..	
		Sandalwood	..	48	48	Do. billets. 127	48	48	..	
		Do. roots dug ..	..	122	122	Do. do. 122	122	122	..	
		Miscellaneous	..	1,797	1,797	Do. logs .. 121 Do. poles .. 1,756	1,797	1,797	..	
		Total ..	..	2,453	2,453	.....	2,453	2,453	..	
	No. IV, Cuddalore range.	Jack tree	..	1	1	Converted into logs .. 1	1	1	..	
		Palmyra trees	..	5	5	Do. do. .. 5	5	5	..	
		Total of district ..	..	2,459	2,459	.....	2,459	2,459	..	
Salem	Denkanikota ..	Casuarina	..	4	4	Converted into logs	4	4	..	
		Bilvaram	..	30	30	Do. do.	30	30	..	
		Timber, first class	..	31	31	Do. do.	31	31	..	
		Do. second class	..	666	666	Do. do.	666	666	..	
		Do. third class	..	464	464	Do. do.	464	464	..	
	Pennagaram ..	Miscellaneous	..	2	2	Do. do.	2	2	..	
		Total ..	..	1,197	1,197	.....	1,197	1,197	..	
Trichinopoly ..	Kulitalai	Casuarina	..	9	9	Sold in retail	9	9	..	
		Babul	..	4	4	Do.	4	4	..	
		Atti	..	1	1	Do.	1	1	..	
		Marudai	..	1	1	Do.	1	1	..	
		Vágai	..	1	1	Do.	1	1	..	
		Total ..	..	16	16	.....	16	16	..	

Trees felled by Government Agency during the year 1886-87—*continued.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Tanjore	....	....	..	..	..	....	no. ..	..	..	
North Coimbatore.	....	....	..	..	..	....	..	..	..	
South Coimbatore	No. I. Tunakadavu Range, Tekadi leased forest.	Teak	..	220	220	Converted into logs	220	220	..	Outturn 542 logs.
Madura ..	No. I Range—Cumbum.	Vengai	..	19	19	Sold	19	19	..	
		Blackwood	..	4	4	Do.	4	4	..	
		Miscellaneous	..	2	2	Do.	2	2	..	
	No. II Range—Upper Pulnies.	Vengai	..	11	11	Do.	5	5	6	
		Miscellaneous	..	3	3	Do.	..	..	3	
		Total ..	..	39	39	....	30	30	9	
Tinnevelly ..	Ambasamudram ..	Kongu	..	131	131	All converted into scantlings ..	131	131	..	
		Vengai	..	12	12	Sold	12	12	..	
Malabar (Wynád and Palghát.)	Pálghat Range ..	Blackwood	..	1	1	Converted into 4 logs ..	1	1	..	
		Vengai	..	3	3	Do. 9 logs ..	3	3	..	
		Miscellaneous	..	183	183	Do. 244 logs ..	162	162	21	
	Wynaad Sub-Division.	Teak	..	2,469	2,469	Do. 4,144 logs ..	2,469	2,469	..	
		Blackwood	..	625	625	Do. 818 logs ..	625	625	..	
		Total ..	..	3,281	3,281	....	3,260	3,260	21	
Malabar (Nilambúr).	Panangod	Teak	223	9	232	Taken to depôt	228	232	..	
						Rejected	4			
		Blackwood	2	19	21	Taken to depôt	21	21	..	
		Benteak	105	58	163	Taken to depot	157	163	..	
						Rejected	6			
	Pokód	Miscellaneous	19	12	31	Taken to depot	31	31	..	
		Blackwood	..	87	87	Do.	87	87	..	
		Teak	..	44	44	Do.	44	44	..	
		Benteak	..	85	85	Do.	85	85	..	
		Miscellaneous	..	27	27	Do.	27	27	..	
	Arimbrakutta ..	Miscellaneous	..	20	20	Taken to river-side	20	20	..	
	Kanakutta ..	Blackwood	..	39	39	....	..	..	39	
		Benteak	..	79	79	....	..	..	79	
		Miscellaneous	..	11	11	....	..	..	11	
	Valluvasheri ..	Teak	..	10	10	....	..	..	10	
		Total ..	349	500	849	....	710	710	139	

Trees felled by Government Agency during the year 1886-87—*continued.*

District.	Range, Forest, or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
South Canara ..	Kundapur range ..	Blackwood	1	..	1	....	..	..	1	
		Miscellaneous	4	..	4	....	..	..	4	
	Upinangadi ..	Blackwood	17	22	39	Converted into logs	32	32	7	Outturn one per tree cut.
		Miscellaneous	132	398	530	Do. do.	231	231	299	
		Teak	..	4	4	Do. do.	4 *	4	..	* Outturn 6 logs.
		Total ..	154	424	578	....	267	267	311	
Grand Total ..	..	Teak	223	2,756	2,979	Converted into 4,690 logs ..	2,693	2,969	10	
						Taken to depôt	272			
						Rejected	4			
		Vengai	..	481	481	Converted into logs 49, poles 462.	439	475	6	
						Sold	36			
		Blackwood	20	797	817	Converted into 854 logs ..	658	770	47	
						Taken to depôt	108			
						Sold	4			
		Sandalwood	..	48	48	Converted into 127 billets ..	48	48	..	
		Sandalwood roots	..	122	122	Do. 122 do. ..	122	122	..	
		Benteak	105	222	327	Taken to depôt	242	248	79	
						Rejected	6			
		Miscellaneous	155	3,853	4,008	Converted into 1,905 logs, 1,801 poles and some scantlings.	3,574	3,670	338	
						Taken to depôt	78			
						Sold	18			
		Total ..	503	† 8,279	8,782	....	..	8,302	480	† Include sandalwood roots.

Annual Form No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87.

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number	Cubic feet.	Number.	Cubic feet.	Number	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Chingleput.	Tiruvallúr ..	Red sanders roots ..	..	..	Tons. lb. 50 0	..	Tons. lb. 50 0	..	Removed to depôt ..	Tons. lb. 50 0	..	Tons. ..	..
		Jungle wood poles..	..	..	..	C. ft. 100	..	C. ft. 100	Sold	..	C. ft. 100	..	..
		Fuel	..	..	1,440 135	..	1,440 135	..	Do.	1,410 0	..	30	lb. 135
		Gall-nuts.. ..	..	..	2 448	..	2 448	..	Removed to depôt ..	2 448	..	..	..
		Avaram bark ..	..	..	105 0	..	105 0	..	Sold	105 0	..	..	..
		Total ..	..	..	1,597 583	100	1,597 583	100	....	1,567 448	100	30	135
North Arcot.	Chandragiri ..	Red wood roots and stumps.	..	..	165 0	..	165 0	..	Removed to Mamandur depôt.	165 0	..	..	..
		Casuarina branch wood.	..	..	24 0	..	24 0	..	Sold to public ..	24 0	..	..	..
		Casuarina poles ..	..	..	No. 28	..	No. 28	..	Do. ..	No. 28	..	..	..
		Total ..	..	..	Tons. 189 No. 28	..	Tons. 189 No. 28	..	....	Tons. 189 No. 28	..	..	..
	Palmanér ..	Karuvelam ..	..	..	1 Tree.	..	1 Tree.	..	Sold to Sub-Collector, North Arcot.	1 Tree.	..	..	..
	Vellore ..	Casuarina, Babul and jungle wood	..	..	Tons. lb. 237 1,357	..	Tons. lb. 237 1,357	..	Removed to Jail depôt.	Tons. lb. 237 1,357	..	..	..
		Naga wood and branches.	..	..	4 cart loads	..	4 cart loads.	..	Sold to Sub-Collector.	4 cart loads.	..	..	..
		Bamboos ..	..	..	No. 20 large, 1,181 small	..	No. 20 large, 1,181 small.	..	Sold to Arsenal ..	No. 20 large, 1,181 small.	..	..	..
		Sandalwood ..	..	..	Tons. lb. 6 430	..	Tons. lb. 6 430	..	Removed to sandal-wood depôt.	Tons. lb. 6 430	..	..	..
	Head quarter range.	Casuarina branch wood.	Tons. lb. 216 1,120	..	143 0	..	359 1,120	..	Sold	283 2,053	..	Tons. lb. 75 1,307	..
		Casuarina wood ..	443 1,120	..	538 1,120	..	982 0	..	Do.	*982 0	..	..	..

* Form No. 71 gives 6 tons less.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number	Cubic feet.
North Arcot—*cont.*	Head quarter range—*cont.*	Casuarina trees ..	..	..	No. 136	..	No. 136	..	Sold	No. 136	..	..	..
		Do. plants ..	..	..	27,700	..	27,700	..	Do.	27,700	..	..	..
		Do seed ..	..	..	Tons. lb. 0 100	..	Tons. lb 0 100	..	Do.	Tons. lbs 0 100	..	..	..
		Ingadulcis ..	..	..	15 0	..	15 0	..	Do.	15 0	..	..	..
	Confiscations..	Miscellaneous ..	..	..	3 672	..	3 672	..	Do.	3 0	lbs. 672	..	..
		Bamboos . ..	..	..	2 336	..	2 336	..	Do.	2 0	336	..	..
		Charcoal	..	..	168	..	168	..	Do.	..	168	..	..
		Timber	..	..	..	C. ft. 409	..	C. ft. 409	Do.	..	C. ft. 409	..	..
		Firewood ..	..	..	1 0	..	1 0	..	Do.	1 0	..	..	..
		Total ..	..	..	6 —1,176	C. ft. 409	6 —1,176	C ft 409	....	6 —1,176	C. ft. 409	..	..
South Arcot.	I. Trinomalai.	Vengai poles ..	55	C. ft. 300	462	1,436 1	517	1,736 1	Sold	517	1,736 1	..	..
		Vengai logs ..	..	..	40	212 9	40	212 9	Do.	40	212 9	..	..
		Miscellaneous timber logs.	..	..	127	517 10	127	517 10	Do	30	126 3	..	..
									Removed to Tirnomalai depôt.	5	18 6	..	..
		Miscellaneous poles	78	302 9	1,903	3,430 4	1,981	3,733 1	Sold	92	373 1	..	..
									Removed to sale depôt.	2	7 1	..	..
									Sold	1,979	3,726 1	..	..
		Teak felloes ..	..	..	328	72	328	72	Removed to Tirnomalai depôt.	328	72	..	..
		Firewood	Tons. 10	..	1 1,680	..	11 1,680	..	Do ..	11 1,680	..	..	..
		Sandalwood and shavings.	..	..	2 814½	..	2 814½	..	Removed to sale depôt	2 814½	..	..	..
		Honey	..	..	0 764½	..	0 764½	..	Do. ..	0 78½	..	..	..
									Sold	0 686			
									Do.	0 182			
		Wax	..	..	0 195	..	0 195	..	Removed to Trinomalai depôt.	0 13	..	..	..
		Miscellaneous ..	..	..	9 24	..	9 24	..	Do. ..	1 0	..	..	..
									Sold . ..	8 24			
	II. Tindivanam.	Casuarina poles ..	..	..	No. 110	242 3	No. 110	242 3	Do.	No. 110	242 3	..	..
		Firewood ..	..	..	Tons lbs. 0 1,204	..	Tons. lbs 0 1,204	..	Do.	Tons. lb. 0 1,204	..	..	..
		Miscellaneous ..	..	..	0 132	..	0 132	..	Do.	0 132	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet	Number	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—cont.	III. Villupuram.	Miscellaneous timber poles.	..	..	No. 22	Tons lb. 24 0	No. 22	Tons. lb. 24 0	Sold	No. 22	Tons. lb. 24 0	..	..
		Firewood ..	..	..	Tons. lb. 711 680	..	Tons. lb. 711 680	..	Do.	Tons. lb. 677 680	..	Tons. 34	..
		Bamboos ..	..	..	No. 20	..	No. 20	..	Do.	No. 20	..	..	..
	IV. Cuddalore	Timber logs ..	..	..	1	13 6	1	13 6	Sold	No. 1	13 6	..	..
		Do. ..	..	..	5	..	5	..	Used departmentally..	5	..	..	..
		Casuarina poles ..	..	..	2,639	1,321 1	2,639	1,321 1	Do. ..	300	77 6	..	..
									Sold	2,339	1,243 7	..	..
		Casuarina, &c., firewood.	Ton. lb. 85—1,176	..	Tons. lb. 1,012—1,481	..	Tons. lb. 1,098—417	..	Do.	Tons. lb. 677 410	..	Tons lb. 415 1,627	..
									Used departmentally..	5 620			
		Casuarina plants, seedling, &c.	..	..	No. 247,278	..	No. 247,278	..	Sold	No. 247,278	..	..	..
		Miscellaneous seeds	..	..	11 measures.	..	11 measures.	..	Do.	11 measures.	..	..	..
		Honey ..	..	..	lb. 1	..	lb. 1	..	Do.	lb. 1	..	..	..
		Wax ..	..	..	13½	..	13½	..	Do.	13½	..	..	..
		Miscellaneous ..	..	..	1,799	..	1,799	..	Do.	1,799	..	..	..
	V. Tirukoilúr	Casuriana poles ..	..	..	No. 12	10 — 11	No. 12	10 11	Sold	No. 12	10 11	..	..
		Firewood ..	..	..	Tons. lb. 23 672	..	Tons. lb. 23 672	..	Do.	Tons. lb. 23 672	..	..	..
	Confiscated Timber, &c.	Timber ..	..	..	..	C. ft. 167	..	C. ft. 167	Sold	..	C. ft 167	..	..
		Miscellaneous trees and plants.	..	..	No. 24	..	No. 24	..	Do.	No. 24	..	..	..
		Firewood ..	..	..	Tons. lb. 27 771	..	Tons. lb. 27 771	..	Do	Tons. lb. 27 771	..	..	..
		Charcoal ..	..	..	4 224	..	4 224	..	Do.	4 224	..	..	..
		Bamboos ..	..	..	No. 49	..	No. 49	..	Do.	No. 49	..	..	..
		Do. ..	..	..	lb. 280	..	lb. 280	..	Do.	lb. 280	..	..	..
		Minor produce ..	..	..	No. 14	..	No. 14	..	Do.	No. 14	..	..	..
		Do. ..	..	..	Tons. lb. 45 2,204	..	Tons. lb. 45—2,204	..	Do.	Tons. lb. 45—2,204	..	..	..
		Do. ..	..	..	14 bundles.	..	14 bundles	..	Do.	14 bundles.	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle	Description of Timber or Forest Produce.	On hand at commencement of year		Collected during year.		Total		Disposed of during year.			Balance at end of year	
			Number.	Cubic feet	Number.	Cubic feet	Number	Cubic feet	How disposed of.	Number	Cubic feet.	Number	Cubic feet
Salem	Salem ..	Engine fuel ..	..	..	Tons 106	..	Tons 106	..	Sold to contractors .	Tons 106	..	..	..
	Tirupatûr ..	Miscellaneous ..	..	..	No 1,100	..	No 1,100	.	Sold by auction .	No 1,100	..	..	..
		Sandalwood ..	..	..	Tons lb 0—252	..	Tons lb 0—252	.	Removed to sale depôt	Tons lb 0—252		..	..
	Dharmapuri ..	Logs of miscellaneous classes	..	..	No 2	8 0 0	No 2	8 0 0	Do ..	No 2	8 0 0	..	..
	Hosur .	Timber 1st, 2nd and 3rd class	..	..	1161	1,456 0 8	1,161	1,456 0 8	Do ..	1161	1 456 0 8	..	..
		Miscellaneous timber	..	..	34	118 5 0	34	118 5 0	Do ..	34	118 5 0	..	..
		Bamboos	..	..	No 1,512 thick 12,200 small	..	No 1,512 12,200	..	Do. ..	No. 1512 12,200	..	..	..
		Sandalwood ..	..	..	Tons lb 1—1,683½	..	Tons lb 1—1,683½	..	Do ..	Tons lb 1—1,683½	..	..	..
		Miscellaneous ..	..	..	No 72	9 0 0	No 72	9 0 0	Do	No 72	9 0 0	..	..
	Confiscated timber, &c.	Timber	..	..	..	C ft 61	..	C ft 61	Sold	..	C ft 61	..	..
		Junglewood ..	..	..	..	682	..	682	Do ..	..	682	..	..
		Firewood . ..	..	..	Tons. lb 23—1,008	..	Tons lb. 23—1,008	..	Do	Tons lb 23 224	..	..	..
									Returned to parties ..	0 784			
		Charcoal	..	..	10—952	..	10—952	..	Sold ..	10 504		..	.
									Returned to parties ..	0 448			
		Bamboos	..	..	1—1,260	..	1—1,260	..	Sold ..	1 700	..	..	..
									Returned to parties ..	0 560			
		Sandalwood ..	..	..	0—284	..	0—284	..	Sold	0 284	..	..	..
		Posts	..	..	No 187	..	No 187	..	Do	No 181	..	..	..
									Returned to parties .	6			
		Leaves	..	..	Tons lb 1—1,344	..	Tons lb 1—1,344	..	Sold .. .	Tons lb 1—1,344		..	..
		Miscellaneous ..	..	..	No 703	.	No 703	..	Do	No. 703	.	..	..
Trichinopoly.	Udayarpalaiyam	Casuarina poles ..	..	..	No. 55	..	No. 55	..	Sold in retail	No. 55	.	..	..
		Firewood.. ..	Tons 7	lb 1,456	690	1,519	698	735	Removed to Tiruvadi depôt	303	1,344	..	..
									Removed to Kumbakónam depôt .	392	1,631		
									Sold	2	..		
		Charcoal . ..	..	..	2	1,120	2	1,120	Do	2	1,120	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
Trichinopoly—*cont.*	Kulitalai ..	Firewood ..	131	539	3,522	2,006	3,654	305	Removed to Trichinopoly depot.	327	2,016	215	1,084
									Sold to South Indian Railway Company.	2,654	341		
									Sold in retail ..	456	1,344		
		Bamboos	..	..	No. 56	..	No. 56	..	Do. ..	No. 56	..	..	..
		Acacia leucophlœa bark.	..	..	4 bundles.	..	4 bundles.	..	Removed to Trichinopoly depot.	4 bundles.	..	..	..
		Miscellaneous timbers.	..	..	No. 16	..	No. 16	..	Sold	No. 16	..	..	..
			Tons.	lb.			Tons.	lb.		Tons.	lb.		
	Musiri ..	Gall-nuts ..	2	160	..	..	2	160	Sold	2	160	..	..
Tanjore.	..	....	..	..	..	..	..	..	....	..	..	..	..
North Coimbatore.	Satyamangalam.	Sandalwood ..	..	..	..	9 maunds.	..	9 maunds.	Taken to sale depot ..	..	9 maunds.	..	..
	Kollegál ..	Do. ..	..	..	..	4 do.	..	4 do.	Do. ..	..	4 do.	..	..
						C. ft.		C. ft.			C. ft.		
	Confiscated timber, &c.	Miscellaneous ..	..	..	..	4	..	4	Sold	..	4	..	
		Vengai poles ..	..	..	4	..	No. 4	..	Do.	No. 4	..	..	..
		Miscellaneous timbers.	..	..	..	882	..	882	Do.	..	866	..	..
									Taken to depot ..	..	16	..	..
		Miscellaneous saplings.	..	..	20	..	20	..	Sold	20	..	..	..
					Tons. cwt.		Tons. cwt.			Tons. cwt.			
		Bamboos ..	..	..	2 —2	..	2 —2	..	Do.	1 10	..	..	..
									Taken to sale depot ..	0 12			
		Firewood ..	..	..	6 —12	..	6 —12	..	Do. ..	5 12	..	..	..
									Sold	1 0			
		Wodder carts ..	..	..	No. 4	..	No. 4	..	Taken to sale depot ..	No. 4	..	..	..
					lb.		lb.			lb.			
		Minor produce ..	..	..	84	..	84	..	Sold	84	..	..	..
South Coimbatore.	I. Tunakadavu range.	Teak	158	7,332	542 logs. + * 13	23,397 ..	713	30,729	Removed to Walayar adivaram.	270	9,528	443	20,077
									Decrease in measurement owing to some of the logs burnt in 1885-86 having been re-squared.	..	1,124		

* Increase caused by splitting and sawing some of the logs.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Coimbatore—*cont.*	I. Tunakadavu range—*cont.*	Cardamoms ..	..	..	lb. 1,981	..	lb. 1,981	..	Removed to sale depôt.	lb. 1,981	..	..	..
		Honey	..	..	101 measures	..	101 measures	..	Do. ..	101 measures	..	..	..
		Rattans	..	..	No. 68,235	..	No. 68,235	..	Do. ..	No 68,235	..	..	..
		Ivory	..	..	lb. 59	..	lb. 59	..	Do. ..	lb. 59	..	..	..
		Other minor produce	..	..	37,694	..	37,694	..	Do. ..	37,694	..	..	..
	No. III. Ponachi range.	Cardamoms ..	..	..	941	..	941	..	Removed to sale depôt	941	..	..	..
		Honey	..	..	3¾ measures	..	3¾ measures	..	Do. ..	3¾ measures	..	..	..
		Rattans	..	..	No. 5,000	..	No. 5,000	..	Do. ..	No. 5,000	..	..	..
		Other minor produce	..	..	lb 12,029	..	lb. 12,029	..	Do. ..	lb. 12,029	..	..	..
	Confiscated wood, &c.	Satinwood ..	..	..	23 pieces	..	23 pieces	..	Sold	23 pieces	..	..	..
		Jungle wood ..	..	..	..	C. ft. 160	..	C. ft. 160	Do.	..	C. ft. 160	..	..
		Firewood including 2 bundles of ploughs.	..	..	Tons. cwts. 20 —15	..	Tons. cwts 20 —15	..	Do.	Tons. cwts 20 —15	..	..	..
		Rosewood slabs ..	..	..	1 heap.	..	1 heap.	..	Do.	1 heap.	..	..	..
		Vembadam bark ..	..	..	lb. 3,136	..	lb. 3,136	..	Do.	lb. 3,136	..	..	..
		Hare	..	..	No. 1	..	No. 1	..	Do.	No. 1	..	..	..
Madura.	No. I. Range.	Vengai	..	..	19	245	19	245	Sold	19	245	..	..
		Blackwood ..	..	..	4	55	4	55	Do.	4	55	..	..
		Miscellaneous ..	..	..	2	89	2	89	Do.	2	89	..	..
	No. II. Range	Vengai	..	..	11	476 C. ft. and 229 Sq. ft.	11	476 C. ft. and 229 Sq ft.	Sold	5	C. ft 200	6	276 C. ft. and 229 Sq. ft.
		Vagai	..	..	3	C. ft. 160	3	C. ft. 160	Do.	..	..	3	C. ft. 160
		Firewood ..	..	..	Tons. lb. 238 —555	..	Tons. lb. 238 —555	..	Transferred to depot ..	Tons. lb. 238 —555	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Madura—*cont.*	Confiscated wood, &c.	Teak	..	..	..	C. ft. 1	..	C. ft. 1	Sold	..	C. ft. 1	..	..
		Vengai	..	..	..	740	..	740	Do.	..	740	..	..
		Jungle wood ..	..	..	..	365	..	365	Do.	..	365	..	..
		Miscellaneous timbers.	..	..	..	320	..	320	Do.	..	320	..	..
		Firewood . ..	..	..	Tons lb. 27—1,008	..	Ton. lb. 27—1,008	..	Do.	Tons. lb 27—1,008	..	..	..
		Charcoal	..	..	0—336	..	0—336	..	Do.	0—336	..	..	..
		Carts with bullocks.	..	..	No. 2	..	No. 2	..	Do.	No. 2	..	..	..
		Bamboos	..	..	Tons. lb. 0—616	..	Tons lb. 0—616	..	Do.	Tons. lb 0—616	..	..	..
		Miscellaneous minor produce.	..	..	1—1,904	..	1—1,904	..	Do.	1—1,904	..	..	..
Tinnevelly.	Papanasam ..	Vengai	..	..	12	15	12	15	Sold	12	15	..	..
		Chokla spokes ..	84	8	..	..	84	8	Do.	84	8	..	..
		Teak fellies ..	..	..	12	..	12	..	Do.	12	..	..	..
		Teak pieces ..	..	..	1,101	..	1,101	..	Do.	1,101	..	..	..
		Miscellaneous pieces.	..	..	1,614	..	1,614	..	Transferred to sale depot.	1,324	..	..	..
									Sold	290			
		Miscellaneous timbers.	902	664	8,967	9,444	9,869	10,678	Transferred to depot	4,056	4,395	1,468	2,300
					28½ cart loads	570	28½ cart loads		Used departmentally	150	96		
									Sold	4,195	3,887		
										28½ cart loads			
		Bamboos	..	..	22½ do.	..	22½ do.	..	Utilised for depot buildings.	2 do.	..	..	..
									Sold	20½ do.			
	Tinnevelly Sub-range.	Seedlings ..	..	..	No. 1,430	..	No. 1,430	..	Do.	No. 1,430	..	..	..
		Junglewood ..	..	..	..	672	..	672	Do.	..	672	..	..
	Confiscated wood, &c.	Firewood ..	..	..	Tons lb 59—1,295	..	Tons lb 59—1,295	lb. ..	Do.	Tons. lb 59—1,295	..	..	..
		Charcoal	..	..	5—56	..	5—56	..	Do.	5—56	..	..	..
		Miscellaneous minor produce.	..	..	5—560	..	5—560	..	Do.	5—560	..	..	..
Malabar, Wynaad and Pálghat).	Pálghat range.	Blackwood logs ..	..	..	4	96	4	96	Sold in the forest .	4	96	..	..
		Vengai	2	147	9	236	11	383	Sold 312 ..	11	383	..	..
									Written off 71 ..				
		Miscellaneous timbers.	..	..	249	11,645	249	11,645	Sold	240	11,059	9	586

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Malabar (Wynaad and Pálghat).	Pálghat range—*cont.*	Teak poles ..	No. 350	..	No. 968	..	No. 13,18	..	Sold	No. 1,318	..	..	..
		Teak pieces ..	520	..	5,256	..	5,776	..	Do.	5,776	..	..	..
		Firewood ..	..	..	Tons. lb. 3,317—672	..	Tons. lb. 3,317—672	..	Do.	Tons. lb. 3,317—672	..	..	..
		Bamboos	19,977	..	..	..	No. 19,977	..	Do.	No. 19,977	..	..	..
	Wynaad sub-division.	Teakwood ..	..	30,730	4,144 0	82,266	..	112,996	Sold	..	13,754	..	97,722
									Used departmentally.	..	359		
									Delivery for advances paid in previous years.	..	1,161		
		Blackwood ..	..	1,258	818	18,897	..	20,155	Sold	..	7,567	..	11,984
									Delivery for advances paid in previous years.	..	604		
		Vengai	..	52	..	..	..	52	....	..	..	..	52
		Ivory	..	..	lb. 64	..	lb. 64	..	Sold in England ..	lb. 64	..	..	..
		Cardamoms ..	..	..	288	..	288	..	Sold	288	..	..	..
		Honey	..	..	124¾	..	124¾	..	Do.	124¾	..	..	..
		Bees wax.. ..	lb. 55	..	42	..	97	..	Do.	18	..	lb. 70	..
									Used by department ..	9			
Malabar (Nilambúr.)	Panangod forest.	Teak	..	..	No. 228	..	No. 228	..	Taken to forest depôt..	No. 228	..	..	..
	Selection felling.	Blackwood ..	..	..	21	..	21	..	Do. ..	21	..	..	..
		Benteak	..	..	157	..	157	..	Do. ..	157	..	..	..
		Karimardu ..	..	..	19	..	19	..	Do. ..	19	..	..	..
		Erul	..	..	12	..	12	..	Do. ..	12	..	..	..
		Total ..	..	..	437	..	437	..	....	437	..	..	..
	Pokod forests.	Teak	..	..	44	..	44	..	Taken to forest depot	44	..	..	..
		Blackwood ..	..	..	87	..	87	..	Do. ..	87	..	..	..
		Benteak	..	..	85	..	85	..	Do. ..	85	..	..	..
		Karimardu ..	..	..	27	..	27	..	Do. ..	27	..	..	..
		Total ..	..	..	243	..	243	..	....	243	..	..	..
	Panangod forest clearings.	Teak logs.. ..	..	..	29	..	29	..	Taken to forest depôt..	29	..	..	..
		Teak poles ..	..	..	82	..	82	..	Do. ..	82	..	..	..
		Blackwood logs ..	..	..	3	..	3	..	Do. ..	3	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Malabar (Nilambúr)—*cont.*	Panangod forest clearings—*cont.*	Blackwood poles ..	..	..	No. 2	..	No. 2	..	Taken to forest depot.	No. 2	..	..	..
		Benteak logs ..	..	..	179	..	179	..	Do. ..	179	..	..	..
		Benteak poles ..	..	..	7	..	7	..	Do. ..	7	..	..	..
		Karimardu logs ..	..	..	14	..	14	..	Do. ..	14	..	..	..
		Karimardu poles ..	..	..	13	..	13	..	Do. ..	13	..	..	..
		Total .. Logs ..	..	..	225	..	225	..	....	225	..	..	..
		Total .. Poles ..	..	..	104	..	104	..	....	104			
	Arimbrakuta forest selection felling.	Erul	..	..	19	..	19	..	Taken to Kallai depôt.	19	..	..	..
		Miscellaneous timbers.	..	..	1	..	1	..	Do. ..	1	..	..	..
		Total ..	..	..	20	..	20	..	..	20	..	..	..
	Panangod plantation.	Sapan dye wood ..	..	..	9¾ candies.	..	9¾ candies	..	..	..	..	9¾ candies.	..
	Teak plantations.	Saplings	No. 7,106	..	No. 59,090	..	No. 66,196	..	(1) Taken to Kallai depôt. (2) Previous year's drift stored on river bank and now taken to depôt. (3) Written off on account of error in collection figures being double entry. (4) Removals of last year to depôt included in No. 70, but omitted in this form.	No. 52,657 66 213 136	..	No. 13,124	..
		Bamboos	..	..	24,813	..	24,813	..	Taken to Kallai sale depôt with timber sapling rafts. Sold in Nilambúr river. Used up departmentally. Rejected being useless Lost in transit ..	20,286 1,655 1,035 1,458 52	..	327	..
		Karyas	..	..	2,775	..	2,775	..	Taken to Kallai sale depôt.	2,775	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Forest Range, Forest or Working Circle	Description of Timber or Forest Produce.	On hand at commencement of year		Collected during year.		Total		Disposed of during year			Balance at end of year	
			Number	Cubic feet.	Number	Cubic feet	Number	Cubic feet	How disposed of	Number	Cubic feet	Number	Cubic feet
			No	C ft	No	C ft.	No	C ft		No	C ft	No	C ft.
South Canara	Kandapur range	Blackwood ..	111	1,923	* 1	..	112	1,923	Found deficient on re-measurement Sold ..	. 5	86¼ 60¾	107	1,776
		Vengai	2	79	..	.	2	79	..	..	..	2	79
		Miscellaneous ..	543	15,163¾	* 4	165½	547	15,329¼	Found deficient on re measurement Sold	5 † 156	91 3,812¼	386	11,426
	Udipi range	Miscellaneous ..	51	1,525	..	..	51	1,525	..	..	.	51	1,525
	Uppinangudi range.	Teak .	8	179	6	61	14	240	Do. ..	‡ 14	240	..	
		Blackwood or rosewood.	39	643	32	564 5	71	1,207 5	Sent to Mangalore depôt	§ 56	918 5	15	289
		Vengai .. .	19	409	8	222 9	27	631 9	Do	§ 23	497 5	4	134 4
		Miscellaneous .	231	5,153¼	315	8,210¾	546	13,364	Sold Sent to depôt Found deficient on remeasurement.	2 § 409 ..	50 8,820 4 25 2	135	4,468½
	Kásaragód ..	Teak poles ..	183	345	..	..	183	345	Sold ..	183	345	..	..
	Uppinangadi .	Top pieces of trees felled by the timber contractor	..	..	14	..	14	..	Do ..	14	..	..	..
	Kandapur ..	Firewood ..	..	..	Tons lb 8—1,536	..	Tons lb 8—1,536	..	Do	Tons lb 8—1,536	..	..	..
	Mangalore ..	Do	..	..	27—809	..	27—809	..	Do.	27—809	..		..
		Casuarina firewood	..	..	113 poles.	.	113 poles.	..	..	..	..	113 poles	..
	Uppinangadi	Charcoal .	..	..	Tons. lb 1—700	..	Tons lb 1—700	..	..	..	..	Tons lb 1—700	..
		Bark of Terminalia tementosa	..	..	840	..	0—840	..	..	..	..	840	..
		Miscellaneous minor produce	..	..	239—2,091½	..	239—2,091½	..	Do.	239—2 091½	..	..	..
	Confiscated drift and waif wood	Bamboos ..	..	..	No 10	..	No 10	..	Do .. .	No 10	..	..	..
		Firewood ..	..	..	Tons lb 2—1,587 No 160	. ..	Tons. lb 2—1,587 No 160	..	Do.	Tons lb 2—1,587 No 160	..	..	..
		Miscellaneous timbers	..	..	271	..	271	..	Do	271	..	..	..

* Result of checking

† Of these 3 logs, 76 cubic feet, were sold in March 1886, but not shown in form No 69 for 1885-86.

‡ Of these 8 logs, 179 cubic feet, were sold in March 1886, but not shown in form No 69 for 1885-86

§ Of these, Rosewood 1 log 11¼ cubic feet, Vengai 2 logs 39 cubic feet Miscellaneous, 32 logs 760 cubic feet were received in the depôt in 1885-86, but not shown as such in form No 69 for 1885-86

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
							Grand Total.						
		Red sanders ..	..	..	Tons. lb. 50 0	..	Tons. lb. 50 0	..	To depot	Tons. lb. 50 0	..	..	..
		Junglewood ..	..	..	..	C. ft. 100	..	C. ft. 100	Sold	..	C. ft. 100	..	..
		Vengai	78	987	561 0	2,843½ and 229 Sq. feet.	639 9	3,830½ and 229 Sq. feet.	Do.	603 0	2,720½	12	541½ and 229 Sq. ft.
									Otherwise	3 0	110		
									To depot	21 0	458½		
		Sandalwood ..	..	..	10 1,304	..	10 1,304	..	Do.	10 1,304	..	..	..
		Teakwood ..	349	38,586	No. 889	105,796	No. 1,238	144,382	Do.	No. 598	9,600	443	117,799
									Sold	189	14,160		
									Otherwise disposed of.	8	2,823		
		Teak poles and pieces.	870	..	7,720	..	8,590	..	Sold	8,207	..	..	..
									To depot	383			
		Bamboos	19,977	..	39,802 22½ cart loads	..	59,779 22½ cart loads	..	Sold	22,909	..	327	..
									Depot	33,998			
									Otherwise disposed of.	2,545			
									Sold	20½ cart loads	..	..	..
									Otherwise disposed of.	2 cart loads.			
		Blackwood or rosewood.	150	3,824	Tons. 41	19,612½	Tons. 191	23,436½	Sold	13	7,778¾	122	14,049
									Otherwise disposed of.	1	701¼		
									To depot	55	907		
					No. 113	..	No. 113	..	Do.	113	..	..	..
		Miscellaneous timbers.	1,889	22,816¾	15,623	37,435¾	17,512	60,252½	Sold	9,169	24,207¾	2,052	20,465½
									To depot	5,801	14,453¾		
									Otherwise disposed of.	490	1,125½		
		Miscellaneous logs and poles.	..	..	Tons. lb. 167	..	Tons. lb. 167	..	To depot	165	..	..	..
									Sold	2			
					5,013	..	5,013	..	Do.	376	..	..	..
									To depot	4,632			
									Otherwise disposed of.	5			
		Charcoal.. ..	..	..	3-1,820	..	3-1,820	..	Sold	2 1,120	..	1	700
		Firewood ..	Tons. lbs. 894 931	..	12,058-1,986	..	12,953-677	..	Do.	10,665	761	770	1,913
									To depot	1,511	1,863		
									Otherwise disposed of.	5	620		
		Do.	..	..	No. 277	..	No. 277	..	Sold	No. 164	..	No. 113	..
		Miscellaneous minor produce.	0 55	..	Tons. lb. 381-1,390½	..	Tons. lb. 381-1,445½	..	Do.	356	1,203½	..	910
									To depot	24	1,563		
									Otherwise disposed of.	0 9	..		

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Forest Range, Forest or Working Circle.	Description of Timber or Forest Produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
						Grand Total—cont.							
			No.										
		Miscellaneous minor produce.	7,106	..	409,833	..	416,939	..	Sold	277,508	..	13,124	..
									To depôt	125,892			
									Otherwise disposed of.	415			
					115⅝ measure	..	115⅝ measure	..	Sold	115⅝ measure	..	..	..
					4 bundles.	..	4 bundles.	..	To depôt	4 bundles.	..	..	..
					9¾ candies.	..	9¾ candies.	..	....	..	..	9¾ candies	..
						Confiscated drift and waif wood.							
						C. ft.		C. ft.			C. ft.		
		Junglewood ..	..	..	..	1,879	..	1,879	Sold	..	1,879	..	..
					lb.		lb.			lb.			
		Sandalwood ..	..	..	284	..	284	..	Do.	284	..	..	..
						C. ft.		C. ft.			C. ft.		
		Teak	..	..	..	1	..	1	Do.	..	1	..	..
		Vengai	..	..	..	740	..	740	Do.	..	740	..	..
					No.		No.			No.			
		Do. poles ..	..	..	4	..	4	..	Do.	4	..	..	..
		Miscellaneous timber.	..	..	..	1,843	..	1,843	Do.	..	1,827	..	..
									To depot	..	16		
		Do. ..	..	..	507	..	507	..	Sold	507	..	..	..
					1 heap	..	1 heap.	..	Do.	1 heap.	..	..	..
										Tons. lb.			
					Tons. lb.		Tons. lb.		Do.	5 —812			
					6 —476	..	6 —476	..	To depot	0—1,344	..	..	..
									Otherwise disposed of.	0 —560			
		Bamboos	..	..						No.			
					No.		No.						
					59	..	59	..	Sold	59	..	..	..
					Tons. lb.		Tons. lb.			Tons. lb.			
									Do.	162 —2,085			
		Firewood ..	..	..	168 —641	..	168 —641	..	To depot	5 —12	..	..	..
									Otherwise disposed of.	0 —784			
		Charcoal	..	..	19—1,736	..	19—1,736	..	Sold	19—1,288	..	..	..
									Otherwise disposed of.	0 —448			
					59 —944	..	59 —944	..	Sold	59 —944	..	..	..
										No.			
		Miscellaneous minor produce.	..	..	No.		No		Do.	922	..	..	..
					932	..	932	..	Otherwise disposed of.	6	..	..	..
									To depot	4	..	..	..
					14 bundles.	..	14 bundles.	..	Sold	14 bundles.	..	..	..

Abstract of Form No. 69.

District	Teak wood	Vengai	Blackwood.	Junglewood.	Red sanders.	Sandalwood	Miscellaneous wood	Firewood.	Bamboos.	Minor produce	Charcoal.
	C ft	C ft.	C ft	C ft	Tons	Tons lb		Tons. lb		Tons lb	Tons lb
Chingleput	.	..	.	100	50			1,440—135		107—448	
North Arcot	.	..	..	..	..	6—430	Tons 167 C ft. 409 No 1	959 237 No 164	No. 1,201 Tons lb 2 336	3 772 No 27 700	0 168
South Arcot	72	1,648—10	..			2—814½	C ft 5 727 No 29	Tons lb 1,776—2,008	No 69 lbs 280	Tons lb 56—652⅝ No 2,47,292 14 bundles 11 measures	4—234
Salem			.	682		1—2,219½	C ft 1 652½ No 187	129—1,008	Tons lb 1—1,260 No 13,712	Tons lb 1—1,344 No 1 993	10—952
Trichinopoly	..			..	..		50 + 16	4,213—1,285	56	4 bundles	2—1,120
Tanjore . . .		.	.	..	..	.	.	..	..		
North Coimbatore . .	..	No 4		.	..	lb 364	C ft 886	6—12	2—224	No 24 Tons lb 0—84	..
South Coimbatore	23,397		..	160	..	.	No 23 1 heap	20—1,680	..	24—2 080 No 73 236 104¾	
Madura ..	1	C ft 1,461 and Sq ft 229	55	365	..	..	C ft 569 No 2	265—1,563	0—616	Tons lb 1—1,904	0—336
Tinnevelly	No 1,113	15		672	..	.	C ft 10 014 No 1,614	59—1,295	22½ cart loads	5—560 No 1,430	5—56
Malabar (Wynaad and Palghát) ..	C ft 82,266 No 6,224	236	18,993	..	..	..	C ft 11,645 No	3,317—672	..	Tons. lb 0—518¾	.
Malabar Nilambúr) . .	383 logs and poles	..	No 113 logs	..	..	..	3,308 logs and poles	..	No 24 813	No 59 090 9¾ candies	
South Canara ..	C. ft 61	C ft 222¾	C ft 564½		.	..	C ft 8,376¼ No 285	38—1,692 No 273	10	Tons lb 240—691½	1—700
Total ..	C ft 105 797 66 810 logs and saplings	C ft 3 583½ and Sq ft 229	C ft 19,612½ No 113 logs.	C ft 1,979	Tons 50	Tons lb 10—1,588	C ft 39 278¾ Tons 167 No 5 520 one heap	Tons lbs 12,227 387 No 437	Tons lb 6 476 22½ cart loads No 39,861	No 351 672 115¾ measures. 0¾ candies 19 bundles Tons lb 441—95	23—1,316

ANNUAL FORM No 70.

Forest Department, Madras, Southern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87.

District	Range	Name of Depôt	Description of Timber and other Produce	On hand, 1st April 1886		Received during the year			Total		Disposed of during the year			Balance on 31st March 1887		Remarks
				Number or quantity	Cubic feet	Whence received	Number or quantity	Cubic feet	Number or quantity	Cubic feet	How disposed of.	Number or quantity	Cubic feet	Number or quantity	Cubic feet	
Chingleput	..	Kambakam	Red sanders roots	..	..	..	Tons. lb 50 0	..	Tons. lb 50 0	..	Sold	Tons lb 50 0	..		..	
			Gall-nuts ..	..	.	.	2 448	..	2 448	..	Do. ..	2 448	.	..	..	
			Total ..	..		..	52 448	..	52 448	..	..	52 448	..		..	
North Arcot	..	Mamandur depôt	Redwood roots and stumps	Tons lb ..	..	Mamandur forest	Tons lb 165 0	..	Tons lb 165 0	..	Sold .	Tons lb 150 0	..	Tons lb 15 0	..	
		Vellore jail depot	Fuel	160 1,556	.	Butur tank bed Amerdi and Tellai forests	237 1,357	..	398 773	..	Sold to jail and manufactory	206 2,065	..	191 948		
		Vellore sandal depot.	Sandalwood and roots	11 812	..	Javadi hills	6 430	..	17 1,242	..	Sold .	11 812	..	6 430	.	
			Total ..	172 228	..	..	408 1,787	..	580 2,015	..	.	368 657	..	212 1,378	..	
South Arcot	I Range.	Trinomalai	Teak felloes	..		Forests ..	328	72 0 0	328	72 0 0	Sold .. .	328	72 0 0	..	..	
			Miscellaneous timber	135	471 9		7	25 7	142	497 4	Removed to Tindivanam depot Sold ..	42 100	150 5 346 11	..	..	
			Firewood .	..	..	Tippakadu	11 1,680	..	11 1,680	..	Do . .	Tons lb. 11 1,680	..	..		
			Sandalwood billets	9 805	..	Chengam	2 366½	..	2 1,171½	..	Do . Taken for specimen	0 791½ 0 158	..	Tons lb 2 222	..	
			Sandalwood roots and shavings	0 56	..	Do ..	0 448	..	0 504	..	Sold	0 504	..	..	..	
			Miscellaneous ..	0 39	..	Do ..	1 91½		1 130½	..	Do	0 119½		1 11	..	
	II Range	Tindivanam	Miscellaneous timber		..	Trinomalai depot	0 42	150 5	0 42	150 5	Do. .. .	0 42	150 5	..	..	
	IV Range	Cuddalore head quarter's office	Sandalwood billet	0 917	..	..	..	..	0 917	..	Do . ..	0 504½	..	0 412½	..	
Salem	..	Salem ..	Miscellaneous timber	23	116 1 8	..	.	..	23	116 1 8	Sold	23	116 1 8	.	..	
		Tirupatur and Pennagaram	Do ..	50	161 5 1	.		..	50	161 5 1	Do	50	161 5 1	..	..	
			Vongai ..	22	69 10 7			..	22	69 10 7	Do	19	64 0 5	3	5 10 2	
			Sandalwood ..	..	.	Forests	lb 252	..	lb 252	..	Do	lb 252		..	.	
		Pennagaram.	Miscellaneous timber	38	55 3 10		2	8 0 0	40	63 3 10	Do	19	37 11 0	21	25 4 10	
			Sandalwood ..	Ton lb 1 448	..	..	lb * 140	.	Ton lb 1 588	..	Do ..	Ton lb 1 224	.	lb 364	..	
			Casuarina ..	..	.	Forests .	4	16 0 0	4	16 0 0	Sold and supplied to Remount depot	4	16 0 0	..	..	
		Denkanikóta	Timber, 1st, 2nd and 3rd classes	..	..	..	1,161	1,455 11 20	1,161	1,455 11 20	Do .	1,161	1,455 11 20	.	..	
			Miscellaneous ..	..	..	..	102	111 5 0	102	111 5 0	Do ..	102	111 5 0	..	..	
			Bamboos ..	..	..	..	1,512 thick 12,200 small	..	1 512 12,200	..	Sold .	1,512 thick 12,200 small	..	..	..	
			Sandalwood .	lb 2,089	..	..	Ton lb 1 1,683½	..	Tons lb 2 1,523	..	Do	lb 462	..	Tons lb 2 1,071	..	
Trichinopoly.	..	Trichinopoly	Casuarina poles	No. 29	..	..	..	..	No 29	..	Sold	No 29	..	..	..	
			Firewood ..	..	..	..	Tons lb 327 2,016	..	Tons lb 327 2,016	..	Do	Tons lb 186 672	..	Tons lb 141 1,344	..	
			Acacia leucophloea bark	..	..	Kulitalai ..	4 bundles	..	4 bundles	..	Do	4 bundles	.	..	..	
		Tiruvadi ..	Firewood ..	Tons lb 54 473	..	..	Tons lb 303 1,344	..	Tons lb 357 1,817	..	Do . ..	Tons lb 326 2,218	..	Tons lb. 30 1,839	..	
		Kumbakónam	Do. ..	23 1,568	..	..	392 1,631	..	416 959	..	Do . .. Struck off † ..	373 1,919 2 2,016	..	39 1,504	..	

* Found in excess in reweighing

† Owing to an error in calculation.

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*continued*

District	Range	Name of Depôt	Description of Timber and other Produce	On hand 1st April 1886		Received during the year			Total		Disposed of during the year			Balance on 31st March 1887		Remarks
				Number or quantity	Cubic feet	Whence received	Number or quantity	Cubic feet	Number or quantity	Cubic feet	How disposed of	Number or quantity	Cubic feet	Number or quantity	Cubic feet	
Tanjore	..	..	..					..	.		..		..	..	..	
North Coimbatore	.	Satyamangalam	Sandalwood	Mds of 28 lb 71½		Satyamangalam forests	Mds 9	..	Mds 80½	..	Wastage in clipping	Mds 17	..	Mds 63½	..	Chipped { Wood 39 19 Roots 22 16 Rough 1 0 Total 63 7
		Kollegál	Do	..	.	Ponachi	4	..	4		.			4	.	
	..	Confiscation of the previous year	Teak logs	9	40 6 0			..	9	40 6 0	Used departmentally Sold	1 8	3 0 9 37 5 3	..	.	
			Do saplings	No 26	.	..		..	No 26		Do	No 26			.	
			Miscellaneous	,, 6				..	6	.	Do	6	..			
			Firewood	..		Kollegal	Tons Cwt 5 12	..	Tons Cwt 5 12		Do .. .	Tons Cwt 5 12		.	.	
			Bamboos		..	Do	0 12	..	0 12		Do .	0 12			..	
			Waddi carts			Do	No 4		No 4		Do .	No 4			.	
	.	Bhavani	Miscellaneous timber	.		Bhavani forests	..	16		16	Do	..	16		.	
South Coimbatore	..	Coimbatore	Teakwood ..	308	6,514	Vellarugu Adivaram	121	3,968	429	10,482	Difference in measurement Sold and supplied Used departmentally	.. 309 2	461 6 443 32	118	3,546	
			Rosewood	25	548	.	..	.	25	548	Sold	19	385	6	163	
			Junglewood	3	78	..	.	.	3	78	Do Used by department	1 2	27 51	..		
	..	Anamalai	Rosewood	247	3,793		.	.	247	3,793	Sold Used departmentally	16 87	144 1,510	144	2,139	
	..	Vellarugu Adivaram	Teakwood ..	81	2,460	Forest	270	9,628	351	11,978	Carted to Coimbatore depôt	121	3 968	230	8,010	
	..	Coimbatore and Anamalai depôts	Honey ..		..	No 1 & III Ranges	Mds 104¾	..	Mds 104¾		Sold .	Mds 104¾	..	..		
			Rattans	.												
			Other minor produce	..	.		No 73 235 52,704 lb	..	No 73 235 52,704 lb		Do Do	No 73 235 52,704 lb	.		..	
Madura	..	Kodaikánal fire wood depôt	Firewood ..	Tons 106	lb 1,143	Kodaikánal plantations and sholas	Tons lb 238 555	..	Tons lb 344 1,698	.	Sold Wastage Overweight in previous year's account now deducted	Tons lb 271 1,460 4d 1,655 0 858	..	Tons lb 28 2,205	..	
Tinnevelly	..	Ambásamudram	Miscellaneous logs and planks	505	1,110	Papanasam	4 056	4,395	4 561	5,501	Used departmentally Sold . .	98 4 374	169 5,282	89	54	
			Miscellaneous pieces			Do	1,324	.	1 324		Do .	1,169		155		
			Tamkoi	lb 687		..			lb 687		Wastage	lb 687			..	
Malabar (Wynaad and Pál ghat)		.		..			..	..	..		..				.	
Malabar (Nilambúr)	..	Panagod Forest depôt	*Selection Fellings*													
			Teak logs	..	.	Forest ..	228	..	228		.		.	228	..	
			Blackwood		..	Do .	21	..	21					21	.	
			Hontoak	.		Do	157		157		..			157	.	
			Karimamdu ..	..	.	Do	19	..	19		.			19	.	

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*continued*

District	Range	Name of Depôt	Description of Timber and other Produce	On hand, 1st April 1886		Received during the year			Total		Disposed of during the year			Balance on 31st March 1887		Remarks
				Number or quantity	Cubic feet	Whence received	Number or quantity	Cubic feet	Number or quantity	Cubic feet	How disposed of	Number or quantity	Cubic feet	Number or quantity	Cubic feet	
Malabar Nilambúr —*cont*		Panagod Forest depôt	Erul ..		..		12	..	12	..	..	..	..	12	..	
			Total	.			437	..	437		.	.	..	437	..	
		Pokod Forest depôt	Teak		.	..	44		44	..			.	44		
			Blackwood	..			87	..	87	..	.	.		87	..	
			Bonteak	..			85	.	85			.	.	85	.	
			Karimamdu	..			27	.	27		.	.		27	.	
			Total	.	.		243	.	243	..			..	243	..	
		Kallai sale depôt	Erul			Arimbrakuta river bank	19	.	19	..		.		19		
			Miscellaneous				1	.	1	.		..		1	..	
			Total	.			20	..	20	..	.	..	..	20		
		Panagod Forest depôt	*Clearings*													
			Teak logs	880		Panagod	29	6,123	909	6,123	Sold .. .	739 73	6,123	97	..	
			Do poles				82		82		Do. ..	..		82	..	
			Blackwood logs	38	403		3	.	41	403	Do .	38	403	3	.	
			Do poles				2		2	..	Do .			2	..	
			Bonteak logs	370			179		549		Do .	370	5,939	179		
			Do poles	..			7		7		Do .. .	.		7	.	
			Karimamdu logs	580	27,827	..	14	..	594	.	Do	580	8,239	14	.	
			Do poles				13		13		Do ..	.		13	..	
			Miscellaneous logs	722			.		722		Do	651				
											Used up	59	13,649	..	.	
											Rejected	2				
			Total	Logs 2,590 Poles ..			225 104	.. .	2,815 104	..		2,522	34,353	293 104		
		Kallai depôt	*Thinnings*	*Teak Saplings*												
			Superior large	3	.	.	3,111	2,903	3,114	2,903	Sold .. .	285	2,903 0 11	* 2,829	..	
			Do small				2,709		2,709		Do ..			2,709	.	
			1st class	1	.		3,713	..	3,714	..	Do .. .			3,714		
			2nd do .	2			5,780	..	5,782	..	Do	..		5 782	.	
			3rd do .	10	.		8 849	.	8,859	.	Do			8,859	..	
			4th do ..	49		.	15 843	.	15,892	.	Do ..			15,892		
			5th do	36	..		10,143	..	10,179		Do .	..	..	10,179	..	
			6th do	7		..	898	..	905		Do ..	..	..	905		
			7th do	..			1,129	.	1,129		Do	..		1,129	.	
			8th do	11		.	548	..	559	.	Do .			559		
			Total	119	.		52,723	2,903	52,842	2,903		285	2,903 0 11	52,557		
			Bamboos whole			Sapling timber rafts	19,893	..	19,893	..	Sold ..	12,500		7,393		
			Do pieces	.	..	Do	393	..	393	.	Do ..	..	..	393		
						..	20,286	..	20,286	.	.	12,500	..	7,786	..	
			Karya .		..	Sapling timber rafts	2,775	..	2,775	..		..	..	2,775		
South Canara.	..	..	Teak .	33	666½	Increase in quantity from doing away with fractions	..	5	33	671½	Sold	33	670½	.	.	
											Decrease on revised measurement according to Hoppus measurer	..	½			
											Decrease from omission of fractions	..	½			

* Of those 26 are logs

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*continued*

District	Range	Name of Depôt	Description of Timber and other Produce	On hand, 1st April 1886		Received during the year			Total		Disposed of during the year			Balance on 31st March 1887		Remarks
				Number or quantity	Cubic feet	Whence received	Number or quantity.	Cubic feet	Number or quantity	Cubic feet	How disposed of	Number or quantity	Cubic feet	Number or quantity	Cubic feet	
South Canara—*cont*	..	..	Blackwood .	3	34½	Increase in quantity from doing away with fractions	.	5½	58	948½	Sold .	35	518½	..	..	
											Erroneous double entry not traceable	1	11½			
						Received from Uppenangadi range	55	907½			Decrease ..	..	½			
											Decrease from omission of fractions	..	1½			
			Miscellaneous timber	75	1,557½	Found lying in the depôt unregistered	1	10	474	10,096½	Sold ..	396	8,308	72	1,666	
						Increase from doing away with fractions	..	10			Decrease from omission of fractions	.	1½			
						Received from Uppenangadi range	398	8,519			Decrease on revised measurement according to Roppus measurer	..	6½			
											Erroneous double entry	6	112½			
											Untraceable decrease	..	1½			
			Total	111	2,259	.	454	9,456½	565	11,715½	..	471	9,632½	94	2,083	

Abstract

							Tons		Tons	lb		Tons				
			Redsanders ..	..	..	.	50	..	50	..	Sold	50	..	.	..	
			Sandalwood Roots and billets	15 402½	..	..	10	1,444	25	1,846½	Do	13	1,810	11 2,142½	.	
											Otherwise disposed of	..	634			
			Teak logs and poles	1,314	9,670½	..	3,859	22,599	5,173	32,269½	Sold . ..	1,775	16,248½	3,274	11,556	
											Otherwise disposed of	124	4,465			
				No												
			Teak saplings	142	..	..	49,966	..	50,108		Sold .. .	285	..	49,823	..	
			Blackwood or rosewood	313	4,779½	..	168	912½	481	5,692½	Do	108	1,450½	285	2,719	
											Otherwise disposed of	88	1,523			
			Vengai ..	22	69 10 7	..	..	..	22	69 10 7	Sold .. .	19	64 0 5	3	5 10 2	
			Junglewood ..	3	78	..	..	..	3	78	Do	1	27		..	
											Otherwise disposed of	2	51			
			Miscellaneous timbers	2,498	29,896½	..	5,940	15,783½	8,438	45,680	Sold . ..	7,868	43,813	395	1,745	
											Otherwise disposed of	175	122½			
																No
			Miscellaneous logs and poles, &c.	6	..	..	4,419	..	4,425	..	Sold .. .	1,175	..	.	3,250	
							Tons		Tons			Tons		Tons		
							165	..	165		Do	150		15		
				Tons.	lb						Do .	1,383	158			
			Firewood .	345	360	..	1,517 967	..	1,862	1,827	Otherwise disposed of	47	49	432	1,120	
							No									
			Bamboo, whole and split		..	..	33,998	..	33,998	..	Sold	26,212	..	7,786	..	
							Cwt		Cwt			Cwt				
							12	..	12	..	Do	12	..	..	..	
					lb						Do . .	25 1,751½	..	Ton lb		
			Minor produce	..	726	..	26 1,723½	..	27 209½	..	Otherwise disposed of	0 687	..	1 11	..	
							No									
							73,243	..	73,243	..	Sold . ..	73,243	..	..	..	
							4 bundles	..	4 bundles		Do	4 bundles	..	..	..	
			Do ..	..	..	..	Measures	..	Measures		Do	Measures	..	..	..	
							104½		104½							
							No		No			No				
							4	..	4		Do	4	..	..	..	

Annual Form No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.			RS. A. P.	RS. A. P.	RS. A. P.			
Chingleput	Tiruvallúr ..	Kambakam depôt.	I (*a*).	Red sanders roots ..	Tons. 50	..	16 0 0 per ton.	800 0 0	800 0 0	..	..	
				Local sales.								
	..	Kambakam hills..	I (*a*).	Junglewood ..	..	100	2 8 0 per 40 c. ft.	6 4 0	6 4 0	..	..	
	..	Maiyur, &c., plantations.	I (*a*).	Timber and fruit trees.	..	..	..	571 15 1	571 15 1	..	..	
				Total ..	..	..	..	..	1,378 3 1	..	..	
	..	Kambakam ..	I (*b*).	Fuel	Tons. 990	..	1 0 0 per ton.	990 0 0	990 0 0	..	..	
	..	Allikuli, &c., hills.	I (*c*).	Do.	,, 420	..	Do.	420 0 0	420 0 0	..	..	
				Sold from depôt								
	..	Kambakam ..	I (*c*).	Gall-nuts .	,, 2	lb. 448	37 4 4 (about).	82 0 0	82 0 0	..	..	
				Local sales.								
	..	Allikuli, &c., hills.	I (*c*).	Avaram bark ..	,, 105	..	6 0 0 per ton.	630 0 0	630 0 0	..	..	
				Total ..	..	..	..	..	1,132 0 0	..	..	
	..	..	III.	Confiscated drift, &c.	..	..	..	95 12 11	95 12 11	..	..	
				Grand Total ..	..	..	..	..	3,596 0 0	..	..	
				Sold from depot.								
North Arcot.	..	Mamandúr depôt.	I (*a*).	Redwood roots and stumps.	Tons. 150	..	115 0 0 per ton.	2,250 0 0	1,500 0 0	..	..	
				Local sales.								
	..	Vellore sandal-wood depôt.	Do.	Nagawood and branches.	3 cartloads.	..	2 0 0 per cartload.	6 0 0	6 0 0	..	..	
	..	..	Do.	Do. do. ..	1 do.	..	1 0 0 per cartload.	1 0 0	1 0 0	..	..	
	..	Mancodipuram ..	Do.	Karivelam tree ..	1 tree	..	0 8 0	0 8 0	0 8 0	..	..	
				Total ..	..	..	..	..	1,507 8 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Range.	Depot or locality	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet	Rate	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved	Remarks.
				Sold from depot	Tons. lb.		RS A. P	RS. A. P.	RS A. P			
North Arcot—*cont*	..	Vellore Jail depot	I (4)	Casuarina, jungle and babul wood.	157 1,151	..	3 6 0 per 1,000	1,190 12 5	1,190 12 5	..	..	
	..	..	Do.	Do. do. ..	49 914	..	3 4 0 per 1,000	359 10 10	340 12 10	..	..	
				Local sales.								
	..	Tiruvallam plantations.	Do	Casuarina wood ..	933½ 0	..	5 8 0 per ton	5,134 4 0	2,799 8 0	..	..	
	..	..	Do.	Casuarina branch wood	233 2,053	..	3 0 0 per ton.	701 12 0	533 12 0	..	..	
	..	..	Do	Casuarina trees ..	96 trees.	..	1 8 0 per tree.	144 0 0	9 0 0	..	..	
		..	Do.	Do. ..	16 trees	..	1 0 0 per tree.	16 0 0	16 0 0	..	..	
	..	..	Do.	Casuarina branch wood.	Tons. 1½	..	2 0 0 per ton.	3 0 0	3 0 0	..	..	
	..	..	Do.	Do. ..	,, 8	..	Highest bid.	36 3 0	36 3 0	..	..	
	..	..	Do.	Inga dulcis ..	30 cartloads.	..	Do.	36 13 0	36 13 0	..	..	
	..	Balampet tope ..	Do	Casuarina trees ..	16 trees.	..	Rs 2 per tree.	32 0 0	32 0 0	..	..	
	..	..	Do.	Do. ..	12 ,,	..	Re. 1 per tree	12 0 0	12 0 0	..	..	
	..	..	Do.	Casuarina branch wood.	Ton. 1	..	4 12 0 per ton.	4 12 0	4 12 0	..	..	
	..	..	Do	Do ..	6 cartloads	..	Highest bid.	11 1 0	11 1 0	..	..	
	..	Virinjipuram ..	Do.	Casuarina poles ..	No. 24	..	Rs 2 per pole.	48 0 0	48 0 0	..	..	
	..	..	Do.	Casuarina branch wood	Ton. 1	..	5 4 0 per ton	5 4 0	5 4 0	..	..	
	..	..	Do.	Do. ..	Tons. 3	..	4 0 0 per ton	12 0 0	12 0 0	..	..	
	..	..	Do	Do. ..	,, 6	..	3 0 0 per ton.	18 0 0	18 0 0	..	..	
	..	..	Do.	Do. ..	,, 19	..	2 8 0 per ton	47 8 0	47 8 0	..	..	
	..	..	Do.	Do. ..	,, 4	..	1 4 0 per ton	5 0 0	5 0 0	..	..	
	..	..	Do	Do. ..	,, 1½	..	2 0 0 per ton.	3 0 0	3 0 0	..	..	
	..	..	Do	Casuarina wood ..	,, ½	..	5 4 0 per ton.	2 10 0	2 10 0	..	..	
	..	..	Do.	Do. ..	,, 41½	..	2 8 0 per ton.	103 12 0	103 12 0	..	..	
	..	..	Do.	Do. ..	,, ½	..	5 8 0 per ton.	2 12 0	2 12 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic Feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Local sales—cont.			RS. A. P.	RS. A. P.	RS. A. P.			
North Arcot—*cont.*	..	Gazulamandiyam.	I (*b*).	Casuarina branch wood.	Tons. 20	..	2 8 0 per ton.	50 0 0	50 0 0	..	..	
	..	Kilmennel ..	Do.	Do. ..	,, 6	..	3 0 0 per ton.	18 0 0	18 0 0	..	..	
				Total ..	..	..	..	..	5,341 8 3	..	..	Examiner's figure is Rs. 7,423-8-3. The difference is the outstanding of previous year.
				Local sales.								
	..	Tellai forests ..	I (*c*).	Large bamboos ..	No. 20	..	1 2 0 each.	22 8 0	22 8 0	..	..	
			Do.	Small do. ..	,, 1,181	..	0 1 6 each.	110 11 6	110 11 6	..	..	
				Total ..	..	..	..	..	133 3 6	..	..	
				Sold from depot.								
	..	Vellore sandal-wood depôt.	I (*d*).	Sandalwood ..	lb. 33	..	4 0 0 per 28 lb.	4 11 5	4 11 5	..	..	
			Do.	Do. ..	,, 373	..	280 0 0 per ton.	46 10 0	46 10 0	..	..	
			Do.	Do. ..	Tons. lb. 11 406	..	400 0 0 per ton.	4,472 8 0	4,472 8 0	..	..	
			Do.	Do. ..	A heap.	..	Highest bid.	71 14 0	71 14 0	..	..	
				Total ..	..	..	..	..	4,595 11 5	..	..	
				Local sales.								
	..	Tiruvallam plantation.	I (*e*).	Casuarina plants ..	No. 16,600	..	5 0 0 per 1,000	83 0 0	83 0 0	..	..	
	..	Kilmennel ..	Do.	Do. ..	,, 1,100	..	Do.	5 8 0	5 8 0	..	..	
	..	..	Do.	Casuarina seed ..	lb. 100	..	1 0 0 per lb.	114 4 0	114 4 0	..	..	
	..	Vanivedu ..	Do.	Do. plants ..	No. 10,000	..	5 0 0 per 1,000	50 0 0	50 0 0	..	..	
				Total ..	..	..	..	..	252 12 0	..	..	
	..	..	III ..	Confiscated drift and waifwood.	..	..	..	234 3 3	234 3 3	..	..	
				Grand Total ..	..	..	..	..	12,064 14 5	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-head.	Description of timber and other produce.	Number of quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.	No.	C. ft.	RS. A. P.	RS. A. P.	RS. A. P.			
South Arcot.	..	Tiruvannámalai.	I (a)	Teak felloes ..	328	72 0	1 7 5	105 10 0	105 10 0	328	..	
			Do.	Miscellaneous logs ..	75	280 0	0 9 10	169 7 9	169 7 9	75	..	
			Do.	Do. poles.	25	66 11	0 9 1	38 1 3	38 1 3	25	..	
	..	Tindivanam ..	Do.	Eruvadi logs ..	8	31 5	0 12 7	24 11 3	24 11 3	8	..	
			Do.	Do. ..	1	3 10	Auction.	3 13 10	3 13 10	1	..	
			Do.	Miscellaneous logs ..	25	89 3	0 10 4	57 7 6	57 7 6	25	..	
			Do.	Do. poles.	8	25 11	0 7 6	12 2 7	12 2 7	8	..	
				Sold from forests.								
	Tiruvannámalai.	Tiruvannámalai circle forest.	Do.	Vengai poles ..	1	0 8	0 7 6	0 5 0	0 5 0	1	..	
			Do.	Miscellaneous poles.	23	14 9	0 6 0	5 5 1	5 5 1	23	..	
	..	Chengam circle.	Do.	Vengai logs ..	29	105 5	0 10 3	67 2 2	67 2 2	29	..	
			Do.	Do. poles ..	240	633 8	0 8 0	316 13 4	316 13 4	240	..	
			Do.	Eruvadi logs ..	1	4 6	0 7 11	2 3 7	2 3 7	1	..	
			Do.	Do. poles ..	14	35 3	0 7 0	15 6 9	15 6 9	14	..	
			Do.	Karungali poles ..	7	7 7	0 7 0	3 2 8	3 2 8	7	..	
			Do.	Miscellaneous timber logs.	92	373 1	0 4 7	106 6 3	106 6 3	92	..	
			Do.	Do. poles.	841	1,883 8	0 4 8	539 12 1	539 12 1	841	..	
	..	Chekadi circle ..	Do	Vengai logs ..	11	107 4	0 9 3	61 7 11	61 7 11	11	..	
			Do.	Do. poles ..	276	1,101 5	0 8 6	589 1 11	589 1 11	276	..	
			Do.	Eruvadi logs ..	1	4 11	0 7 11	2 6 11	2 6 11	1	..	
			Do.	Do. poles ..	24	70 1	0 7 10	34 6 6	34 6 6	24	..	
			Do.	Karungali logs ..	4	4 4	0 5 0	1 12 2	1 12 2	4	..	
			Do.	Miscellaneous timber logs.	24	112 6	0 5 0	33 7 2	33 7 2	24	..	
			Do.	Do. poles.	1,070	1,714 8	0 6 8	693 1 6	693 1 6	1,070	..	
	Tindivanam ..	Tindivanam forests	Do.	Casuarina poles ..	110	242 3	0 4 0	60 9 5	60 9 5	110	..	
	..	Villupuram ..	Do.	Miscellaneous timber poles.	22	24 0	0 2 8	4 0 0	4 0 0	22	..	
	..	Cuddalore ..	Do.	Casuarina poles ..	2,339	1,243 7	0 3 5	263 5 4	263 5 4	2,339	..	
		..	Do.	Jack tree ..	1	13 6	0 8 0	6 12 0	6 12 0	1	..	
	..	Tirukoilúr ..	Do.	Casuarina poles ..	12	10 11	..	2 11 10	2 11 10	12	..	
				Total ..	..	..	..	..	3,221 1 9	..	..	
				Sold from depôt.	Tons. lb.					TONS. LB.		
	..	Tiruvannámalai ..	I (b)	Firewood ..	11 1,680	..	Auction.	17 8 0	17 8 0	11 1,680	..	
				Sold from forests.								
	..	Tindivanam ..	Do.	Firewood ..	0 1,204	..	1 8 2	0 13 0	0 13 0	0 1,204	..	
	..	Villupuram ..	Do.	Babul poles ..	677 680	..	5 4 4	3,570 1 6	3,570 1 6	677 680	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Range	Depôt or locality	Budget sub-head	Description of timber and other produce	Number of quantity.	Cubic feet	Rate	Total amount of sale.	Amount actually paid	Number of logs and pieces, &c, removed	Number sold but remaining unremoved	Remarks
				Sold from forests—cont	Tons lb		RS. A. P	RS A. P	RS A. P	Tons lb		
South Arcot—*cont*	Tindivanam—*cont*	Cuddalore ..	I (b)	Casuarina poles .	129 2,050	..	3 15 1	513 0 2	513 0 2	129 2,050	..	
	..	Chidambaram ..	Do	Mangrove, &c, poles.	547 600	..	4 4 3	2,332 12 4	2,332 12 4	547 600	..	
	..	Tirukoulúr ..	Do	Firewood	23 672	.	3 5 4	77 10 6	77 10 6	23 672	..	
				Total ..	..	..	..	..	6,511 13 6	..	..	
				Sold from forests.								
	..	Villupuram ..	I (e)	Bamboos	No 20	..	0 4 1	5 3 0	5 3 0	no 20	..	
				Sold from depôt	Tons lb					Tons. lb	..	
	..	Tiruvannámalai ..	I (d)	Sandalwood billets..	0 119½	..	400 0 0	21 5 5	21 5 5	0 119½	..	
	..	..	Do	Do do ..	0 672	..	240 0 0	72 0 0	72 0 0	0 672	..	
	..	..	Do	Do roots ..	0 56	..	160 0 0	4 0 0	4 0 0	0 56	..	
	..	..	Do	Do shavings	0 448	..	5 0 0	1 0 0	1 0 0	0 448	..	
	..	Cuddalore ..	Do	Do billets ..	0 268½	..	280 0 0	33 9 0	33 9 0	0 268½	..	
	..	..	Do	Do do ..	0 236	..	240 0 0	25 4 7	25 4 7	0 236	..	
				Total ..	..	..	.	..	157 3 0	.	..	
				Sold from depôt.	Tons lb					Tons. lb		
	..	Tiruvannámalai ..	I (e)	Honey	0 106½	..	284 0 0	13 8 0	13 8 0	0 106½	..	
	..	..	Do	Wax	0 13	..	886 10 8	5 2 4	5 2 4	0 13	..	
				Sold from forests								
	..	I. Tiruvannámali, Chengam circle	Do	Gall-nuts	4 441	..	58 1 6	243 13 3	243 13 3	4 441	..	
	..	..	Do	Honey	0 686	..	223 9 8	68 7 8	68 7 8	0 686	..	
	..	..	Do	Wax	0 182	..	886 10 8	72 0 8	72 0 8	0 182	..	
	..	..	Do	Sambram bark ..	0 843	..	Auction	6 9 8	6 9 8	0 843	..	
	..	..	Do	Tagarai seed ..	2 448	..	20 6 8	44 14 8	44 14 8	0 448	..	
	..	..	Do	Nerpungan seed ..	0 672	..	17 8 0	5 4 0	5 4 0	0 672	..	
	..	Checkadi circle ..	Do	Gall nuts ..	0 2,100	..	51 10 8	48 7 0	48 7 0	0 2,100	..	
	..	Tindivanam .	Do.	Gooseberry fruits ..	0 132	..	5 13 4	0 5 6	0 5 6	0 132	..	
	..	Cuddalore ..	Do	Casuarina plantas	no 230,056	..	1 5 8 per 1,000	312 3 9	312 3 9	No. 230,056	..	
	..	..	Do	Cashew-nuts ..	9 measures.	..	0 0 9	0 6 9	0 6 9	9 measures	..	
	..	..	Do	Kodukapali seeds ..	2 do	..	0 2 9	0 5 6	0 5 6	2 do.	..	
	..	..	Do.	Grass ..	lb 1,792	..	0 10 0	0 8 0	0 8 0	lb 1,792	..	
	..	..	Do	Christmas trees ..	No 2	..	0 2 0	0 4 0	0 4 0	No. 2	..	

Sales of Timber and other Produce cut and collected by Government Ageney during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forests—cont.			RS. A. P.	RS. A. P.	RS. A. P.			
South Arcot—*cont.*	Chidambaram ..	..	I (*e*)	Casuarina seedlings.	17,220	..	1 13 10 per 1,000	32 2 0	32 2 0	17,220	..	
	..	..	Do.	Honey	Tons. lb. 0 1	..	560 0 0	0 4 0	0 4 0	Tons lb. 0 1	..	
	..	..	Do.	Pannikutti bark ..	0 7	..	60 0 0	0 3 0	0 3 0	0 7	..	
	..	..	Do.	Wax	0 ½	..	466 10 8	0 0 5	0 0 5	0 ½	..	
	Head-quarters office.	..	Do.	Do.	0 13	..	630 0 0	3 10 6	3 10 6	0 13	..	
				Total ..	..	..	..	..	858 8 8	..	..	
				Sold from forests.								
	..	..	III.	Confiscated drift and waifwood.	..	..	..	255 12 7	255 12 7	..	..	
				Grand Total ..	..	..	..	..	11,009 10 6	..	..	
				Sold from depôt.	No.							
Salem	Salem ..	..	I (*a*).	Acha	14	62 0 4	Auction.	60 8 0	60 8 0	14	..	
	..	..	Do.	Sellavungi ..	9	51 1 4	Do.	39 0 0	39 0 0	9	..	
	Tirupatúr ..	..	Do.	Acha	49	160 0 9						
	..	..	Do.	Borasu	1	1 4 4	1 5 0	272 2 5	272 2 5	60	..	
	..	..	Do.	Vengai	10	45 11 2						
	Pennagaram ..	..	Do.	Acha logs ..	16	24 10 2	1 4 4	31 10 2	31 10 2	16	..	
	..	..	Do.	Vengai	9	18 1 3	1 4 4	23 0 5	23 0 5	9	..	
	..	..	Do.	Eruvadi	1	5 0 0	1 4 4	6 5 8	6 5 8	1	..	
	..	..	Do.	Miscellaneous logs ..	2	8 0 0	Auction.	7 6 0	7 6 0	2	..	
	Denkanikóta ..	..	Do.	Bilvam	30	102 5 0	1 0 0	102 6 8	102 6 8	30	..	
	..	..	Do.	Timber, 1st class ..	31	277 10 3	1 0 0	277 13 7	277 13 7	31	..	
Salem ..	..	..	Do.	Do. 2nd do. ..	666	505 5 9	0 12 0	379 1 9	379 1 9	666	..	
	..	..	Do.	Do. 3rd do. ..	464	672 8 8	0 11 0	462 7 10	462 7 10	464	..	
	..	..	Do.	Casuarina poles ..	4	16 0 0	4 0 0	16 0 0	16 0 0	4	..	
	..	..	Do.	Ploughs	36	6 0 0	0 2 0	4 8 0	4 8 0	36	..	
	..	..	Do.	Do. handles ..	36	3 0 0	0 1 0	2 4 0	2 4 0	36	..	
				Total ..	..	..	..	..	1,684 10 6	..	..	
				Sold from forests.								
	Morur ..	..	I (*b*)	Engine fuel ..	Tons. 106	..	2 0 3	213 9 6	213 9 6	Tons. 106	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Range	Depôt or Locality	Budget sub-heads	Description of timber and other produce.	Number or quantity.	Cubic feet	Rate	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed	Number sold but remaining unremoved	Remarks.
				Sold from depot	No		RS A P	RS A P	RS A P			
Salem—*cont*	Denkanikóta ..	..	I (*c*)	Thick bamboos ..	1,500	..	11 4 0 per 100	168 12 0	168 12 0	1,500	..	
	..	..	Do	Do ..	12	..	0 6 0	4 8 0	4 8 0	12	..	
		.	Do	Small bamboos .	200	..	1 12 0 per 100	3 8 0	3 8 0	200	..	
	..	..	Do	Do ..	12,000	..	1 8 0 per 100	180 0 0	180 0 0	12,000	..	
				Total ..	..	..	..	..	356 12 0	..	..	
				Sold from depot	Tons lb					Tons lb		
	Tirupatúr .	..	I (*d*)	Sandalwood ..	0 252	..	..	31 8 0	31 8 0	0 252	..	
	Pennagaram .	..	Do	Do ..	1 224	..	2 8 0 per maund	215 0 0	215 0 0	1 224	..	
	Denkanikóta ..	..	Do	Do ..	0 462	..	3 8 0 per maund; 2 8 0 per maund	58 0 7	58 0 7	0 462	..	
				Total ..	..	..	..	.	304 8 7	..	..	
				Sold from forest								
	Tirupatúr ..	..	I (*e*)	Guava fruits .	1,100	..	0 1 0 per 100	0 11 0	0 11 0	1,100	..	
	..	..	III	Confiscated drift and waifwood	..	..	..	520 4 11	520 4 11	..	..	
				Grand Total ..	..	..		..	3,080 8 6	..	..	
				Sold from depot	No					No		
Trichinopoly	Trichinopoly ..	..	I (*a*)	Casuarina saplings.	29	..	0 1 0	1 13 0	1 13 0	29	..	
				Sold locally								
	Elamanúr ..	..	Do.	Vagai	1	..	8 0 0	8 0 0	8 0 0	1	..	
	..	..	Do	Marudai	1	..	3 8 0	3 8 0	3 8 0	1	..	
		..	Do.	Atti	1	..	1 0 0	1 0 0	1 0 0	1	..	
	Pettuvaitalai ..	..	Do.	Babul poles ..	4	..	1 0 0	4 0 0	4 0 0	4	...	
	Manatattai ..	..	Do.	Casuarina poles ..	3	..	1 0 0	3 0 0	3 0 0	3	..	
	.	..	Do	Casuarina ..	6	..	3 0 0	18 0 0	18 0 0	6	..	
	Kalamanikam ..	..	Do.	Casuarina poles ..	6	..	1 0 0	6 0 0	6 0 0	6	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or Locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally—cont.	No.		RS. A. P.	RS. A. P.	RS. A. P.	No.		
Trichinopoly—*cont.*	Kalamanikam *cont.*	..	I (*a*)	Casuarina poles ..	7	..	0 12 0	5 4 0	5 4 0	7	..	
	..	..	Do.	Do.	6	..	0 8 0	3 0 0	3 0 0	6	..	
	..	..	Do.	Do.	11	..	0 4 0	2 12 0	2 12 0	11	..	
	..	..	Do.	Do.	25	..	0 7 $10\frac{8}{25}$	12 4 0	12 4 0	25	..	
				Total ..	..	..	..	..	68 9 0	..	.	
				Sold from depot.	Tons. lb.							
	Trichinopoly ..	..	I (*b*)	Firewood ..	151 1,120	..	2 8 0 per ton.	378 12 0	378 12 0	..	..	
	..	..	Do.	Do.	0 1,792	..	3 2 0	2 8 0	2 8 0	..	..	
	..	..	Da.	Do.	34 0	..	1 14 0	63 12 0	63 12 0	..	..	
	Tiruvádi ..	..	Do.	Do.	265 1,344	..	3 2 0	830 0 0	830 0 0	..	..	
	..	..	Do.	Casuarina poles ..	4 952	..	3 15 9	17 10 0	17 10 0	..	..	
	..	..	Do.	Do.	7 0	..	3 2 0	21 14 0	21 14 0	..	..	
	..	..	Do.	Do.	13 $2,38\frac{8}{9}$	..	..	58 8 0	58 8 0	..	..	
	..	..	Do.	Firewood ..	4 0	..	4 14 0	19 8 0	19 8 0	..	..	
	..	..	Do.	Do.	2 $1,194\frac{2}{3}$	..	4 10 $2\frac{10}{13}$	11 12 0	11 12 0	..	..	
	..	..	Do.	Do.	5 1,344	..	5 0 $8\frac{8}{9}$	28 4 0	28 4 0	..	..	
	..	..	Do	Do.	3 1,568	..	4 1 $11\frac{13}{17}$	15 4 0	15 4 0	..	..	
	..	..	Do.	Do.	3 504	..	4 1 $\frac{44}{189}$	13 2 0	13 2 0	..	..	
	..	..	Do.	Do.	2 1,232	..	4 0 $3\frac{23}{31}$	10 4 0	10 4 0	..	..	
	..	..	Do.	Do.	9 392	..	3 14 $1\frac{1344}{1547}$	35 10 0	35 10 0	..	..	
	..	..	Do.	Do.	3 280	..	4 8 $3\frac{21}{35}$	14 2 0	14 2 0	..	..	
	..	..	Do.	Do.	2 2,128	..	3 14 $4\frac{22}{39}$	11 8 0	11 8 0	..	..	
	Kumbakónam ..	..	Do.	Do.	97 448	..	4 6 0	425 4 0	425 4 0	..	..	
	..	..	Do.	Do.	165 896	..	3 12 0	620 4 0	620 4 0	..	..	
	..	..	Do.	Do.	107 0	..	3 2 0	334 6 0	334 6 0	..	..	
	..	..	Do.	Do.	3 1,955	..	10 10 $5\frac{17}{27}$	41 4 0	41 4 0	..	..	
	..	..	Do.	Do.	0 860	..	9 1 $10\frac{13}{42}$	3 8 0	3 8 0	..	..	
				Sold locally.								
	Elamanúr ..	..	Do.	Firewood ..	192 0	..	4 8 0	864 0 0	864 0 0	..	..	
	..	..	Do.	Do.	42 1,674	..	3 8 0	149 9 10	149 9 10	..	..	
	Pettuvoitalai ..	..	Do.	Do.	8 0	..	1 4 0	10 0 0	10 0 0	..	..	
	..	..	Do.	Do.	32 1,541	..	4 8 0	147 1 6	147 1 6	..	..	
	..	..	Do.	Do.	5 699	..	3 8 0	18 9 5	18 9 5	..	..	
	Manatattai ..	..	Do.	Do.	197 0	..	4 8 0	886 8 0	886 8 0	..	..	
	..	..	Do.	Do.	40 622	..	3 8 0	140 15 6	140 15 6	..	..	
	..	..	Do.	Do.	21 448	..	0 5 0	6 10 0	6 10 0	..	..	
	..	..	Do.	Do.	1 1,344	..	1 11 6	2 12 0	2 12 0	..	..	
	..	..	Do.	Do.	0 896	..	1 14 0	0 12 0	0 12 0	..	..	
	Lálápet ..	..	Do	Do. .. .	398 0	..	4 8 0	1,791 0 0	1,791 0 0	..	..	
	..	..	Do.	Do.	92 0	..	3 8 0	322 0 0	322 0 0	..	..	
	..	..	Do.	Do.	70 0	..	0 8 0	35 0 0	35 0 0	..	..	
	Sittalavoi ..	..	Do	Do.	332 0	..	4 8 0	1,494 0 0	1,494 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold Locally—cont.	Tons. lb.		RS. A. P	RS. A. P.	RS. A. P			
Trichinopoly—*cont*	Sittalavoi ..	..	I (*b*)	Firewood	65 0	..	3 8 0	227 8 0	227 8 0	..	..	
	..	..	Do.	Do.	162 0	..	0 8 0	81 0 0	81 0 0	..	..	
	Kattalai ..	..	Do.	Do.	135 121	..	4 8 0	607 11 10	607 11 10	..	..	
	..	..	Do.	Do.	39 2,119	..	3 8 0	139 12 11	139 12 11	..	..	
	..	..	Do.	Do.	40 0	..	0 8 0	20 0 0	20 0 0	..	..	
	Punganúr ..	..	Do.	Do.	100 0	..	3 12 0	375 0 0	375 0 0	..	..	
	..	..	Do.	Do.	9 448	..	2 8 0	23 0 0	23 0 0	..	..	
	..	..	Do.	Do.	109 0	..	0 8 0	54 8 0	54 8 0	..	..	
	..	..	Do.	Do.	6 896	..	1 9 0	10 0 0	10 0 0	..	..	
	..	..	Do.	Do.	6 0	..	2 3 0	13 2 0	13 2 0	..	..	
	Pungantangi ..	..	Do.	Do.	111 120	..	4 8 0	499 11 10	499 11 10	..	..	
	..	..	Do.	Do.	35 801½	..	3 8 0	123 12 0	123 12 0	..	..	
	..	..	Do.	Do.	1 1,792	..	3 2 0	5 10 0	5 10 0	..	..	
	..	..	Do.	Do.	0 1,792	..	0 11 3	0 9 0	0 9 0	..	..	
	Ambásamudram.	..	Do.	Do.	75 0	..	4 8 0	337 8 0	337 8 0	..	..	
	..	..	Do.	Do.	45 0	..	3 8 0	157 8 0	157 8 0	..	..	
	Vaiyalúr ..	..	Do.	Do.	438 1,278	..	4 8 0	1,973 9 1	1,973 9 1	..	..	
	..	..	Do.	Do.	260 1,246	..	3 8 0	911 15 2	911 15 2	..	..	
	..	..	Do.	Do.	19 448	..	1 9 0	30 0 0	30 0 0	..	..	
	..	..	Do.	Do.	0 1,792	..	1 11 6	1 6 0	1 6 0	..	..	
	Kattuvari ..	..	Do.	Do.	10 180	..	4 8 0	45 5 9	45 5 6	..	..	
	..	..	Do.	Do.	4 1,588	..	3 8 0	16 7 8	16 7 8	..	..	
	Tainimelai ..	..	Do.	Do.	2 0	..	2 8 0	5 0 0	5 0 0	..	..	
	Kolamanikam ..	..	Do.	Do.	0 1,792	..	2 0 6	1 10 0	1 10 0	..	..	
	Aramanaikurchi	..	Do.	Do.	0 448	..	1 14 0	0 6 0	0 6 0	..	..	
	Annagarampatti.	..	Do.	Do.	0 448	..	1 7 9	0 4 9	0 4 9	..	..	
	Valakurchi ..	..	Do.	Do.	0 1,792	..	1 10 3	1 5 0	1 5 0	..	..	
	Sinnavalayam..	..	Do.	Charcoal	2 1,120	..	12 0 0	30 0 0	30 0 0	..	..	
				Total ..	..	..	..	..	14,519 9 0	..	..	Examiner's figure is Rs. 15,080-13-0. The difference is the outstanding of previous year.
				Sold locally.	No.							
	Kulitalai ..	..	I (*e*)	Bamboos . ..	2	..	0 4 0	0 8 0	0 8 0	..	..	
	.	..	Do.	Do. thorns ..	6 bundles.	..	0 2 0	0 12 0	0 12 0	..	..	
	Manatattai. ..	..	Do.	Bamboos	54	..	1 0 0 per 6	9 0 0	9 0 0	..	..	
				Total .	..	..	..	..	10 4 0	..	..	
				Sold from depot.								
	Trichinopoly ..	..	I (*e*)	Acacia leucophlœa ..	4 bundles.	..	0 1 6 per bundle.	0 6 0	0 6 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Range	Depôt or locality	Budget sub-head	Description of timber and other produce	Number or quantity.	Cubic feet	Rate	Total amount of sale	Amount actually paid	Number of logs and pieces &c, removed	Number sold but remaining unremoved.	Remarks
				Sold locally	Tons. lb		RS A P	RS A P	RS. A P			
Trichinopoly—*cont.*	..	..	I (e)	Gall-nuts	2 160	..	49 7 6⅝	102 8 0	102 8 0	..	..	
				Total		.	.	..	102 14 0	.	.	
	..	..	III	Confiscated drift and waifwood.	..	.	.	..	57 1 11	..	..	
				Grand Total		..	.		14,758 5 11		..	
Tanjore ..	Tiruturaipúndi	..	III	Firewood, &c, confiscated drift and waif wood		..	..	24 15 3	24 15 3	..	.	
				Sold from depot								
North Coimbatore-	Kollegál and Bhavání	..	I (a)	Teak logs	No 8	37 5 3	..	24 10 0	24 10 0	37 5 3	.	
				Sold from depot								
	Kollegál and Bhavání	..	III	Confiscated drift and waifwood	..	.	..	64 4 3	64 4 3	.	..	
				Sold from forests								
	Satyamangalam, Kollegál, and Bhavání		III	Confiscated drift and waifwood.	..	..	.	65 9 6	65 9 6	.	..	
				Total			..		129 13 9			
				Grand Total	.				154 7 9		.	
				Sold from depot	No							
South Coimbatore	.	Coimbatore depôt	I (a)	Teak .	4	93 4 9	1 4 0	116 11 11	116 11 11	4		
			Do	Do ..	253	4,776 11 3	0 10 4	3,087 0 0	3 087 0 0	253		
		.	Do	Do ..	14	506 3 8	2 0 0	1,012 9 0	1,012 9 0	14	..	
		..	Do	Do .	23	611 7 6	1 12 0	1,070 5 11	1,070 5 11	23		
			Do	Do	15	462 1 6	1 2 0	693 3 3	693 3 3	15		
		.	Do	Rosewood	19	384 7 2	1 0 0	376 10 0	376 10 0	19	.	
			Do	Junglewood .	1	27 0 0	1 4 0	34 6 0	34 6 0	1		
		Anaimalai depôt	Do	Rosewood	16	144 0 0	0 12 0	108 0 0	108 0 0	16		
				Total		..		..	6,498 14 1	.		
				Minus	..			.	42 7 0			Transferred to I (e) in Form No 54
				Total	..	..	..	..	6,456 7 1	..	.	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depôt.			RS. A. P.	RS. A. P.	RS. A. P.			
South Coimbatore—*cont.*	Tunakadavu ..	..	I (*e*)	Cardamom ..	lb. 1,981	..	..	1,789 4 3	1,789 4 3	..	..	
	..	..	Do.	Dammer ..	,, 12,259	..	..	1,019 11 10	1,019 11 10	..	..	
	..	..	Do.	Wax	,, 2,605	..	..	774 6 9	774 6 9	..	..	
	..	..	Do.	Deer horns ..	,, 206	..	..	35 14 4	35 14 4	..	..	
	..	..	Do	Pepper	,, 109	..	..	84 8 9	84 8 9	..	..	
	..	..	Do.	Turmeric	,, 2,497	..	..	132 14 7	132 14 7	..	..	
	..	..	Do.	Seekoy	,, 19,878	..	..	34 8 3	34 8 3	..	..	
	..	..	Do.	Mattipal	,, 137	..	..	44 5 5	44 5 5	..	..	
	..	..	Do.	Ivory	,, 59	..	..	176 0 0	176 0 0	..	..	
	..	..	Do.	Honey	Mds. 101	..	..	98 1 6	98 1 6	..	..	
	..	..	Do.	Rattans	No. 68,235	..	..	1,179 1 6	1,179 1 6	..	..	
	Ponachi	..	Do.	Cardamoms ..	lb. 941	..	..	894 0 0	894 0 0	..	..	
	..	..	Do.	Dammer	,, 5,106	..	..	454 5 11	454 5 11	..	..	
	..	..	Do.	Wax	,, 193	..	..	71 14 6	71 14 6	..	..	
	..	..	Do.	Deer horns ..	,, 20	..	..	2 0 1	2 0 1	..	..	
	..	..	Do.	Gall-nuts	,, 5,209	..	..	172 5 3	172 5 3	..	..	
	..	..	Do.	Tetankottai ..	,, 1,481	..	..	25 14 9	25 14 9	..	..	
	..	..	Do.	Mattipal	,, 20	..	..	0 12 0	0 12 0	..	..	
	..	..	Do.	Honey	Mds. 3¾	..	..	3 3 9	3 3 9	..	..	
	..	..	Do.	Rattans	No. 5,000	..	..	118 12 0	118 12 0	..	..	
				Total ..	..	..	..	..	7,112 1 5	..	..	
				Plus ..	..	..	..	..	42 7 0	..	..	Transferred from I (*e*) in Form No. 64.
				Total ..	..	..	..	..	7,154 8 5	..	..	
				Sold locally.								
	..	..	III	Confiscated drift and waifwood.	..	..	..	119 9 9	119 9 9	..	..	
				Deduct amount transferred to V (*e*). by Examiner.	..	..	..	..	16 0 0	..	..	
				Total of III ..	..	..	..	..	103 9 9	..	..	
				Grand Total ..	..	..	..	..	13,714 9 3	..	..	
				Sold from depôt.								
Madura ..	..	Kodaikanal depôt.	I (*b*)	Firewood	Tons. lb. 271 1,460	..	Rs. 2½ and 3 per 1,000 lb., exclusive of carriage hire.	1,653 8 6	1,653 8 6	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved	Remarks.
				Sold from forest.				RS. A. P.	RS. A. P.	C. Ft		
Madura—*cont.*	No. 1 Periyakulam.	..	I (*e*)	Vengai	..	245	Auction	418 1 0	418 1 0	389	..	
	..	..	Do.	Mangakadambai ..	..	89	..					
	..	..	Do.	Blackwood ..	..	55	..					
	No. 2 Kodaikánal.	..	Do.	Vengai	..	200	..	154 0 0	154 0 0	200	..	
				Total ..	..	..	..	..	572 1 0	.	..	
		..	III	Confiscated drift and waifwood.	..	..	..	624 7 4	624 7 4	..	..	
				Total of District.	..	..	..	..	2,850 0 10	..	..	
				Sold from depôt.	No.							
Tinnevelly	Ambásamudram	..	I (*e*)	Miscellaneous logs and plants.	4,374	5,282	..	5,456 14 6	4,385 2 4	4,374	..	
	..	..	Do.	Miscellaneous pieces.	1,169	..	..	136 8 10	125 12 7	1,169	..	
				Sold from forest.								
	Pápanásam ..	..	Do.	Kongue logs ..	4,195	3,317	..	3,990 5 2	3,990 5 2	4,195	..	
	..	..	Do.	Vengai	12	15	..	20 10 0	20 10 0	12	..	
	..	..	Do.	Teak felloes ..	12	..	..	2 8 0	2 8 0	12	..	
	..	..	Do.	Miscellaneous pieces.	374	..	..	33 8 7	33 8 7	374	..	
	Kalakád ..	..	Do.	Teak pieces ..	1,101	..	..	91 6 0	91 6 0	1,101	..	
	..	..	Do.	Miscellaneous timber.	28½ cartloads	570	..	104 0 0	104 0 0	28½ cartloads	..	
				Total ..	..	..	..	..	8,753 4 8	..	..	
	Pápanásam ..	..	I (*e*)	Bamboos	10¼ Tons.	..	..	268 14 0	268 14 0	..	..	
	Tinnevelly sub-range.	..	I (*e*)	Seedlings.. ..	1,430	..	..	45 1 9	45 1 9	1,430	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	342 15 10	342 15 10	..	..	
				Total of District ..	..	..	..	..	9,410 4 3	..	..	
				Sold from forest.								
Malabar (Wynaad and Pálghat).	Chedlet and Begur.	..	I (*e*)	Teak logs.. ..	817	13,754 + 2 sawn scantlings	..	7,054 5 0	7,054 5 0	..	..	
	..	..	Do.	Blackwood ..	371	7,567	..	4,333 13 5	4,333 13 5	..	..	
	..	..	Do.	Miscellaneous ..	5	111	..	27 14 6	27 14 6	..	..	
	Chenatnair forest, Walayár, &c.	..	Do.	Blackwood ..	4	96	..	102 7 3	102 7 3	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic Feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forest.	No.			RS. A. P.	RS. A. P.			
Malabar (Wynaad and Pálghat)—*cont.*	Chenatnair forest, Wálayár, &c.-*cont.*	..	I (a)	Vengai	10	312	..	160 14 5	160 14 5	..	..	
	..	..	Do.	Miscellaneous ..	235	10,948	..	4,047 9 0	4,047 9 0	..	..	
	..	..	Do.	Teak poles ..	1,318	..	..	2,192 4 0	2,192 4 0	..	..	
	..	..	Do.	Teak pieces ..	5,776	..	..	424 12 6	424 12 6	..	..	
				Total ..	..	..	..	..	18,344 0 1	..	..	
					Tons C.Ft.							
	Wálayár ..	..	I (b)	Billet wood ..	1,925 1	..	..	1,152 15 0	1,152 15 0	..	..	
	..	..	Do.	Faggot wood ..	1,392 5	..	..	519 14 0	519 14 0	..	..	
				Total ..	..	..	..	..	1,672 13 0	..	..	
	..	..	I (c)	Bamboos	19,977	..	..	69 9 7	69 9 7	..	..	
	Manantoddy ..	..	I (e)	Honey	lb. 24¾	..	0 3 0	4 10 3	4 10 3	..	..	
	..	..	Do	Cardamoms ..	,, 288	..	Rs. 25 per tulam of 32 lb.	192 5 6	192 5 6	..	..	
	London ..	..	Do.	Ivory	,, 64	..	..	266 3 1	266 3 1	..	..	
	Palghát ..	..	Do.	Honey	,, 100	..	..	27 8 0	27 8 0	..	..	
	..	..	Do.	Wax	,, 18	..	..	6 15 7	6 15 7	..	..	
				Total ..	..	..	..	..	497 10 5	..	..	
	..	..	III	Confiscated drift and waifwood.	..	..	..	6 0 5	6 0 5	..	..	
				Total of District ..	..	..	..	..	20,590 1 6	..	..	
				Sold from depot.								
Malabar (Nilambúr).	..	Panayangod forest depot.	I (a)	Teak logs ..	739	6,123	7 1 0 per candy.	3,326 7 0	3,326 7 0	..	..	
		..	Do.	Do. ..	73	..	1 0 0 each.	73 0 0	73 0 0	..	..	
		..	Do.	Blackwood ..	38	403	6 8 0 per candy.	201 8 0	201 8 0	..	..	
		..	Do.	Benteak ..	370	5,939	2 11 0	1,227 12 5	1,227 12 5	..	..	
		..	Do.	Karimarudu ..	580	8,239	2 6 0	1,505 3 2	1,505 3 2	..	..	
		..	Do.	Pumaridu ..	431	10,107	1 2 0	874 10 4	874 10 4	..	..	
		..	Do.	Erul	220	3,542	1 4 0	340 9 2	340 9 2	..	..	
		Kallai sale depot..	Do.	Teak saplings ..	285	2,903 0 11	9 0 0 per candy.	2,009 13 2	1,935 6 2	24	261	
				Total ..	..	..	..	..	* 9,484 8 3	..	..	

* The Examiner's figure is Rs. 14,862-7-1. The difference is the outstanding of previous year.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							RS. A. P.	RS. A. P.	RS. A. P.			
Malabar (Nilambúr)—*cont.*	Nilambúr river..	..	I (*e*) ..	Bamboos .. .. *Local sale.*	12,500	..	9 4 0 per 100	1,156 4 0	1,156 4 0	..	..	
	..	..	Do.	Bamboos	1,655	..	6 0 0 per 100	99 4 10	99 4 10	..	..	
				Total ..	..	..	..	..	1,255 8 10	..	..	
				Add deposit paid by bamboo purchaser.	..	..	..	..	428 13 4	..	..	
				Total of I (*e*) ..	..	..	..	..	1,684 6 2	..	..	
				Total of District ..	..	..	..	..	11,168 14 5	..	..	
South Canara.				*Sold from depôt.*								
	..	..	I (*a*) ..	Teak	4	74¼	16 0 0 per 12¾ c. feet.	93 4 10	93 4 10	4	..	
	..	..	Do.	Do.	29	596	11 0 0 per 12¾ c. feet.	514 3 2	514 3 2	29	..	
	..	..	Do.	Blackwood ..	2	34¼	15 0 0 per 12¾ c. feet.	48 5 8	48 5 8	2	..	
	..	..	Do.	Do.	33	484	..	398 8 0	283 8 0	33	..	
	..	..	Do.	Miscellaneous ..	10	213¼	11 0 0 per 12¾ c. feet.	183 15 8	183 15 8	10	..	
	..	..	Do.	Do.	9	204	Auction.	138 8 0	138 8 0	9	..	
	..	..	Do.	Do.	102	1,947	Do.	1,190 10 0	1,190 10 0	99	..	
	..	..	Do.	Miscellaneous timber.	275	5,943¾	Retail sale ..	4,600 11 6	4,600 11 6	..	..	
				Sold from forest.								
	Kondapur ..	..	Do.	Rosewood ..	5	60¾	Auction.	62 0 0	62 0 0	..	..	
	..	..	Do.	Miscellaneous ..	155	3,786¼	..	2,512 2 6	2,512 2 6	..	..	
	Uppinangadi range.	..	Do.	Teak pieces ..	6	..	..	36 0 0	36 0 0	..	..	
	..	..	Do.	Top pieces of trees..	14	..	..	5 4 0	5 4 0	..	..	
	Kásaragód range	..	Do.	Teak poles ..	183	345	..	26 8 0	26 8 0	..	..	
				Total ..	..	..	..	..	9,695 1 4	..	..	
				Add amount transferred from I (*e*).	..	..	..	..	2 11 0	..	..	
				Total ..	..	..	..	..	9,697 12 4	..	..	
	Kondapur ..	..	I (*b*) ..	Firewood ..	Tons. lb. 8 1,536	..	Auction.	40 6 3	40 6 3	..	..	
	Mangalore ..	..	Do.	Do.	27 ·809	..	Do.	112 12 0	112 12 0	..	..	
				Total ..	..	..	..	..	153 2 3	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks
				Sold from forest—cont.	Tons. lb.		RS. A. P.	RS. A. P.	RS. A. P.			
South Canara —*cont.*	Kondapur ..	..	I (*e*)	Beleric myrabolams.	0 21	..	15 0 0 per ton.	0 2 3	0 2 3	..	..	
	..	..	Do.	Catechu	5 1,923	..	469 1 6	2,748 2 11	2,748 2 11	..	..	
	..	..	Do.	Cinnamon flowers ..	1 2,077	..	276 0 9	419 9 8	419 9 8	..	..	
	..	..	Do.	Deer horns ..	0 250	..	397 6 7	44 5 8	44 5 8	..	..	
	..	..	Do.	Honey	0 450	..	181 15 10	37 4 8	37 4 8	..	..	
	..	..	Do.	Myrabolams ..	22 546	..	79 7 5	589 3 4	589 3 4	..	..	
	..	..	Do.	Nux vomica ..	0 1,306	..	47 7 8	27 10 11	27 10 11	..	..	
	..	..	Do.	Pepper	0 13	..	461 4 6	2 10 10	2 10 10	..	..	
	..	..	Do.	Sleige	13 824	..	61 3 1	818 0 0	818 0 0	..	..	
	..	..	Do.	Wax, 1st sort ..	0 278	..	1,235 15 3	153 6 3	103 6 3	..	..	
	..	..	Do.	Wax, 2nd sort ..	0 251	..	935 5 11	104 12 11	54 12 11	..	..	
	..	..	Do.	Wild mace ..	4 613	..	359 11 0	1,537 3 1	1,537 3 1	..	..	
	..	..	Do.	Do. nutmeg ..	8 504	..	60 13 7	500 7 5	500 7 5	..	..	
	Udipi ..	..	Do.	Beleric myrabolams.	0 1,705	..	1 6 4	1 1 0	1 1 0	..	..	
	..	..	Do.	Cardamoms ..	0 23	..	1,753 0 8	18 0 0	18 0 0	..	..	
	..	..	Do.	Cinnamon flowers ..	1 1,219	..	249 12 5	385 11 3	385 11 3	..	..	
	..	..	Do.	Deer horns ..	0 34	..	339 5 10	5 2 5	5 2 5	..	..	
	..	..	Do.	Honey	0 494	..	172 3 5	37 15 8	37 15 8	..	..	
	..	..	Do	Myrabolams ..	5 1,174	..	49 12 1	274 13 9	274 13 9	..	..	
	..	..	Do.	Nux vomica ..	4 1,887	..	48 12 1	236 5 9	236 5 9	..	..	
	..	..	Do.	Pepper	0 281	..	720 12 3	90 6 8	90 6 8	..	..	
	..	..	Do.	Sleige	8 2,213	..	143 1 1	1,285 14 9	1,235 14 9	..	..	
	..	..	Do.	Wax, 1st sort ..	0 36	..	1,317 10 11	21 2 10	21 2 10	..	..	
	..	..	Do.	Do. 2nd sort ..	0 74	..	854 0 6	28 3 5	28 3 5	..	..	
	..	..	Do.	Brambles, &c., from Agarkad reserve.	11 heaps. Tons. lb.	..	..	7 8 0	7 8 0	..	..	
	Mangalore ..	..	Do.	Beleric myrabolams.	0 1,162	..	2 5 7	1 3 6	1 3 6	..	..	
	..	..	Do.	Cinnamon flowers ..	0 1,295	..	212 13 3	123 0 8	123 0 8	..	..	
	..	..	Do.	Do. bark ..	0 6	..	46 10 8	0 2 0	0 2 0	..	..	
	..	..	Do.	Deer horns ..	0 80	..	350 11 8	12 8 5	12 8 5	..	..	
	..	..	Do.	Myrabolams ..	1 336	..	33 1 9	38 0 11	38 0 11	..	..	
	..	..	Do.	Nux vomica ..	21 1,399	..	41 5 2	893 9 8	893 9 8	..	..	
	..	..	Do.	Pepper	0 637	..	759 5 5	215 15 0	188 3 0	..	..	
	..	..	Do.	Sleige	110 929	..	55 8 6	6,131 11 9	6,131 11 9	..	..	
	..	..	Do.	Wax, 1st sort ..	0 51	..	1,241 0 3	28 4 1	28 4 1	..	..	
	..	..	Do.	Do. 2nd sort ..	0 111	..	640 3 1	31 11 7	31 11 7	..	..	
	..	..	Do.	Wild mace ..	9 0	..	360 4 2	3,242 5 7	3,242 5 7	..	..	
	..	..	Do.	Do. nutmeg ..	3 910	..	29 8 0	100 7 9	100 7 9	..	..	
	..	..	Do.	Wood oil	0 111	..	544 13 10	27 0 0	27 0 0	..	..	
	Uppinangadi ..	..	Do.	Cinnamon flowers ..	0 2¼	..	163 5 4	0 2 11	0 2 11	..	..	
	..	..	Do.	Deer horns ..	0 18	..	396 10 8	3 3 0	3 3 0	..	..	
	..	..	Do.	Honey	0 64	..	273 7 0	7 13 0	7 13 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*continued.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from forest—cont.	Tons. lb.		RS. A. P.	RS. A. P.	RS. A. P.			
South Canara—*cont.*	Uppinangadi—*cont.*	..	I (*e*).	Myrabolams ..	0 115	..	28 3 3	1 7 2	1 7 2	..	..	
	..	..	Do.	Nux vomica ..	1 1,644	..	30 4 0	52 8 10	52 8 10	..	..	
	..	..	Do.	Pepper	0 364	..	972 4 11	158 15 9	158 15 9	..	..	
	..	..	Do.	Sleige	3 589	..	40 3 2	131 2 8	131 2 8	..	..	
	..	..	Do.	Wax, 1st sort ..	0 72	..	2,540 5 7	35 10 9	35 10 9	..	..	
	..	..	Do.	Wild mace ..	5 1,471	..	319 1 3	1,804 14 8	1,804 14 8	..	..	
	..	..	Do.	Do. nutmeg ..	2 975	..	54 0 4	126 11 1	126 11 1	..	..	
	..	..	Do.	Teak branches, &c.	..	..	..	2 11 0	2 11 0	..	..	
	Kásaragód ..	..	Do.	Beleric myrabolams.	0 56	..	10 10 0	0 4 3	0 4 3	..	..	
	..	..	Do.	Deer horns ..	0 82	..	579 5 7	21 3 4	21 3 4	..	..	
	..	..	Do.	Honey	0 9	..	365 8 11	1 7 6	1 7 6	..	..	
	..	..	Do.	Myrabolams ..	0 423	..	52 12 8	9 15 6	9 15 6	..	..	
	..	..	Do.	Nux vomica ..	0 11	..	46 10 8	0 3 8	0 3 8	..	..	
	..	..	Do.	Sleige	0 84	..	66 4 0	2 9 1	2 9 1	..	..	
				Total ..	..	..	..	..	22,404 10 6	..	..	
				Deduct amount transferred to I (*a*).	..	..	..	..	2 11 0	..	..	
				Total of I (*e*) ..	..	..	..	..	22,401 15 6	..	..	
	Udipi, Mangalore, Uppinangadi, and Kásaragód range.	..	III.	Confiscated drift and waifwood.	..	..	..	507 1 5	502 1 5	..	..	
				Total of District.	..	..	..	..	32,754 15 6	..	..	
				Grand Total ..	..	..	..	1,39,606 4 2	1,35,177 12 1	..	..	

Grand Total ..

Teak	30,003 cubic feet and 8,233 logs, poles, and pieces.
Vengai	3,942 cubic feet.
Blackwood	9,228½ cubic feet.
Junglewood	2,000 cubic feet.
Red sanders	50 tons.
Sandalwood	13 tons, 1,594 lb , and a heap of chips.
Bamboos	5 tons, 2,156 lb., No. 49,131 , 20½ cartloads and 6 bundles.
Miscellaneous timber	66,030½ cubic feet, 152 tons, and 2,044 logs and poles.
Firewood and charcoal	12,233 tons, 932 lb , and 324 poles.
Minor produce	440 tons, 1,659 lb., No. 351,673 ; 18 bundles, 115½ measures, and 9½ candies.

ABSTRACT

Budget sub-head	Sold from depôt	Sold from forest
	RS A P	RS A P
I (a)	31,927 8 9	29,262 8 0
I (b)	6,159 9 9	24,896 6 3
I (c)	356 12 0	2,171 8 3
I (d) ..	5,057 7 0	.
I (e)	7,255 8 9	25,193 4 0
III	160 1 2	2,737 2 2
Total ..	50,916 15 5	84,260 12 8
Total .	.	1,35,177 12 1
Add outstandings due from previous years collected during the year	..	8,021 2 10
Total .		1,43,198 14 11

Abstract of amount realized

	RS A P
I (a) . ..	66,570 10 7
I (b) . .	33,699 4 0
I (c) .	2,528 4 3
I (d) ..	5,057 7 0
I (e) ..	32,446 1 9
III ..	2,897 3 4
Total .	1,43,198 14 11

ANNUAL FORM No. 72

Forest Department, Madras, Southern Circle.

Timber and other Produce cut, collected, and removed from the Forests by Consumers or Purchasers, including Pasture during the year 1886-87

District	Produce removed			Amount of revenue	Amount actually realized during the year	Remarks
	Description		Number or quantity			
Chingleput	Junglewood poles		C FT 64,120¼	RS 4,008	RS 4,008	II (a)
	Firewood		TONS LB 14,614 2,109	9,134	9,134	
	Deduct as per Examiner's account the amount included in summary of 1885-86		..	..	300	
		Total .	..	..	8,834	II (b)
	Bamboos		129 2,002	344	344	II (c)
	Grazing			641	641	II (d)
	Avaram bark and rent on palmyra fruit trees, &c		..	1,501	1,501	II (e)
	Total of the District		..	15,028	15,328	
North Arcot	Timber (rough and squared) . ..		C FT 185,079	18,038	18,038	II (a)
	Firewood		TONS LB 35,686 2,191	37,089	37,041	
	Charcoal		994 1,249½	3,937	3,937	
		Total	36,681 1,200½	41,026	40,978	
	Add outstanding from previous year ..		..		80	
		Total ..	..		41,058	II (b)
	Bamboos		4,670 1,288	16,124	16,124	II (c)
	Grazing and fodder grass .. .			1,423	1,423	II (d)
	Bark		212 1,204	1,190	1,191	
	Other minor produce		..	15,072	15,072	
		Total	212 1,204	16,262	16,263	
	Deduct amount erroneously credited ..		..	..	12	
		Total .	..	..	16,251	II (e)
	Total of the District ..		..	92,873	92,894	
South Arcot	Timber, 1st, 2nd and 3rd class . ..		C FT 30,673½	1,948	1,948	
	Casuarina		513	221	53	
	Miscellaneous timber		19,265	2,430	2,431	
	Palmyra and date trees ..		NO. 313	279	279	
		Total .	C FT 50,451½ / NO 313	4,878	4,711	II (a)
	Firewood		TONS LBS 12,253 745	13,048	13,048	
	Charcoal		118 1,756	705	705	
		Total ..	12,372 261	13,753	13,753	II (b)
	Bamboos (split and rough) .. .		1,395 1,736	3 522	3,522	II (c)
	Grazing and fodder grass ..		7 2,184	1,306	1,306	II (d)
	Minor produce		7,287 1,239½ / NO 33,126	10,130	10,130	II (e)
	Total of the District			33,589	33,422	

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
Salem ..	Timber	C. FT. 92,218	RS. 10,372	RS. 10,372	II (*a*).
	Firewood	TONS. 23,486 $\frac{28}{40}$	14,679	14,679	
	Engine fuel	1,734 $\frac{1}{2}$	1,832	1,832	
	Charcoal	1,492 $\frac{1}{16}$	6,718	6,719	
	Total ..	26,713 1,120	23,229	23,230	II (*b*).
	Bamboos	10,877 $\frac{2}{16}$	24,304	24,304	II (*c*).
	Grass	..	24	24	II (*d*).
	Palmyra and tamarind trees	..	31,913	31,913	
	Minor produce	270 112	497	497	
	Minor produce contract	..	23,114	23,114	
	Total ..	270 112	55,524	55,524	II (*e*.)
	Add as per Examiner's audited figures ..	..	..	88	
	Total ..	..	..	55,612	
	Total of the District ..	..	1,13,453	1,13,542	
Trichinopoly ..	Casuarina and babul trees	NO. 177	232	232	
	Timber, 1st, 2nd, and 3rd class	C. FT. 257,798	17,341	17,341	
	Total ..	257,798 NO. 177	17,573	17,573	II (*a*).
	Firewood	TONS. LB. 6,501 261	4,523	4,523	
	Charcoal	160 112	634	634	
	Total ..	6,661 373	5,157	5,157	II (*b*).
	Bamboos	NO. 677	97	97	
	Bamboos	TONS. LB. 1,490 1,442	3,074	3,074	
	Bamboo thorns	40 bundles.	1	1	
	Total ..	No. 677 TONS. LB. 1,490 1,442	3,172	3,172	II (*c*).
	Grass	..	2,566	2,328	II (*d*).
	Minor produce	616	4,540	4,349	II (*e*).
	Total of the District ..	..	33,008	32,579	
Tanjore ..	Timber, 1st, 2nd, and 3rd class	C. FT. 3,380	241	241	II (*a*).
	Firewood	TONS. LB. 2,804 112	5,109	5,109	
	Charcoal	35 1,736	141	141	
	Total ..	2,839 1,848	5,250	5,250	II (*b*).
	Bamboos	TONS. LB. 29 1,792	70	70	II (*c*).
	Grazing and fodder grass	..	414	414	II (*d*).
	Minor produce	..	2,620	2,620	II (*e*).
	Total of the District ..	..	8,595	8,595	
North Coimbatore	Timber	C. FT 33,657	4,928	4,928	II (*a*).
	Firewood	TONS LB. 5,720 0	4,596	4,596	
	Charcoal	33 $\frac{1}{2}$ 0	98	98	
	Total ..	5,753 560	4,694	4,694	II (*b*).

Timber and other Produce cut, collected, and removed from the Forests, &c —*continued*

District	Produce removed			Amount of revenue	Amount actually realized during the year	Remarks
	Description		Number or quantity			
North Coimbatore—*cont.*	Bamboos (plain and split)	.. ..	TONS 3,758	RS 9,507	RS 9,507	II (c)
	Grazing and fodder grass	.. ..	..	22,465	22,465	II (d)
	Minor produce	. .. ..	..	2,856	2,856	
	Minor produce contract	.. .. ..	..	6,200	6,200	
	Rent of topes, &c., including the arrears of previous years		..	44,273	23,853	
	Total	..	..	53,329	32,909	II (e)
	Total of the District	..	..	94,923	74,503	
South Coimbatore	Teak	.. . .	C FT 4,522	3,172	3,172	
	Vengai	.. ..	4,328	1,002	1,002	
	Miscellaneous	.. ..	45,939	5,915	5,915	
	Total	..	54,789	10,089	10,089	
	Add amount transferred from V (c)	..	..	..	8	
	Total	.	.	..	10,097	II (a)
	Firewood	.. . . ..	14,647	10,945	10,945	
	Charcoal	.. ..	142	501	501	
	Total	..	14,789	11,446	11,446	II (b)
	Bamboos (plain and split)	.. ..	TONS 5,184	5,722	5,722	II (c)
	Grazing and fodder grass	.. .	..	5,241	5,242	II (d)
	Minor produce contract	. .. ..	..	1,184	1,184	
	Other minor produce	.. .. ..	..	7,011	7,011	
	Total	..	..	8,195	8,195	II (e)
	Total of the District	..	..	40,693	40,702	
Madura	Vengai	.. .. ..	C FT. 7,341	2,664	2,664	
	Junglewood	.. . .	264,855	15,429	15,293	
	Vekkali	.. ..	701	123	123	
	Vagai	. . . ..	33	6	6	
	Miscellaneous timber	.	486	117	117	
	Revenue collected by the Vaimbam Gumastah but reported to have been stolen away.		..	* 378	..	
	Total	.	272,416	18,717	18,203	II (a)
	Firewood	.. ..	TONS LB 15,537 828	11,582	11,582	
	Charcoal	.. . .	608 1,680	2,505	2,505	
	Total	..	16,146 268	14,087	14,087	II (b)
	Bamboos (plain and split)	.. ..	1,326 804	3,397	3,397	II (c)
	Grazing	.. . .	7,405	1,392	1,392	II (d)
	Minor forest produce	.. .. ..	2,365 28	22,989	† 22,042	II (e)
	Total of the District		..	60,582	59,121	
Tinnevelly ..	Vengai	.. ..	1,576	1,302	1,302	
	Teak materials	.. .. ..	857	353	353	
	Chokla do	.. ..	1,976	753	753	
	Miscellaneous timber	.. . ..	625	279	279	
	Timber, 1st, 2nd, and 3rd class	..	29,844	3,100	3,100	
	Timber contractor's deposit credited to Revenue		..	100	100	
	Total	..	34,878	5,887	5,887	II (a)

* To be recovered from the Gumastah

† Of the difference of Rs. 947 Rs 815 should be recovered from the minor produce contractors and Rs. 132 from the Permit Gumastahs of Kalarapatti and Sellappanaikenpatti

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		Tons. lb.	RS.	RS.	
Tinnevelly—*cont.*	Firewood	12,030 728	15,052	15,354	
	Charcoal	19,747 784	7,589	7,589	
	Total ..	31,779 1,512	22,641	22,943	
	Add as per Examiner's audited figure ..	..	..	1	
	Total ..	..	..	22,944	II (*b*).
		Tons.			
	Bamboos, &c.	196	870	870	II (*c*).
	Grazing fees	..	251	313	II (*d*).
	Minor produce	..	13,390	14,101	II (*e*).
	Total of the District ..	..	43,039	44,115	
Malabar (Wynaad and Pálghat).	Blackwood pieces	6	2	2	
	Miscellaneous timber	3	5	5	
	Advance for timber	..	2,600	2,600	
	Total ..	9	2,607	2,607	II (*a*).
		Tons.			
	Firewood	367	307	307	
	Charcoal	47½	119	119	
	Total ..	414½	426	426	II (*b*).
	Bamboos in (Wynaad and Palghát) ..	33,782	512	512	II (*c*).
	For right to cut and remove grass ..	..	117	117	II (*d*).
	For right to collect minor produce ..	..	1,160	1,160	
	Do. do. coffee crops	..	78	78	
	Do. do. pepper crops	..	206	206	
	Total ..	..	1,444	1,444	II (*e*).
	Total of the District ..	..	5,106	5,106	
Malabar (Nilambúr).	Uprooted and dry timber	283	714	714*	
	Junglewood trees	519	260	260	
	Total ..	802	974	974	II (*a*).
	Bamboos	5,055	152	152	II (*c*).
	Total of the District ..	..	1,126	1,126	
South Canara ..	Reserved trees	108	808	808	
	Classified trees	289	1,337	1,337	
	Unclassified trees	77	154	154	
	Trees, saplings, and plants	..	104	104	
	Dead and withered trees	..	37	37	
	Total ..	474	2,440	* 2,440 + 138	
	Total ..	..	..	2,578	II (*a*).
		Tons. lb.			
	Firewood	13,400 1,798	17,596	13,829	
	Charcoal	96 1,867	291	291	
	Total ..	13,497 1,425	17,887	14,120	II (*b*).

		RS. A. P.
Amount realized under (*a*) as per this statement		2,440 6 2
Deduct amount received in October 1885	14 0 0	
Do. paid to Karkal Deputy Tahsildar but not remitted to treasury	28 0 0	
		42 0 0
		2,398 6 2
Add amount paid on trees not removed		180 0 0
Amount as per Form No. 64		2,578 6 2

Timber and other Produce cut, collected, and removed from the Forests, &c.—*continued.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS.	RS.	
South Canara—*cont.*	Bamboos	37,599	478	* 478 + 23	II (*e*).
	Total ..	..	478	501	
	Minor produce	..	111	111	
	Assessment on Neriya Cardamom tract ..	..	1,500	1,500	
	Rent of pepper kan for 1885-86	..	4	4	
	Do. of Cardamom forests ..	..	720	720	
	Total ..	Tons. lb. 24 443 No. 9,466	2,335	2,335	II (*e*).
	Deduct amount of deposit twice credited in the accounts for 1885-86.	..	..	450	
	Total ..	..	..	1,885	
	Total of the District ..	..	23,140	19,084	
	Grand Total .. II (*a*)		1,00,752	1,00,217	
	II (*b*)		1,68,730	1,64,999	
	II (*c*)		68,174	68,196	
	II (*d*)		35,840	35,665	
	II (*e*)		1,92,259	1,71,038	
	Total ..		5,65,755	5,40,115	
	Deduct outstandings of previous years erroneously added in North Coimbatore and other errors found by checking the figures with the audited figures.		24,742	..	
	Net result ..		5,41,013	..	

	RS.	A.	P.
* Amount realized as per this statement	478	3	6
Add fees on 1,500 bamboos not removed	22	8	0
Total as per Form No. 64 ..	500	11	6

Abstract of Form No. 72.

District.	Timber Miscellaneous.		Firewood.		Bamboos.			Minor produce.		
	C. FT.	NO.	TONS.	LB.	TONS.	LB.	NO.	TONS.	LB.	NO.
Chingleput	64,120¾		14,614	2,109	129	2,002		..		
North Arcot	185,979		36,681	1,200½	4,670	1,288		212	1,204	
South Arcot	50,461½	313	12,372	261	1,395	1,736		7,387	1,239½	33,126
Salem	92,218		26,713	1,120	10,877	908		270	112	
Trichinopoly	257,798	177	6,661	373	1,490	1,442	677	0	616	
Tanjore	3,380		2,839	1,848	29	1,702		..		
North Coimbatore	33,657		5,752	560	3,758	0		..		
South Coimbatore	54,789		14,789	0	5,184	0		..		
Madura	278,416		16,146	268	1,326	804		2,365	28	
Tinnevelly	34,878		31,779	1,512	196	0		..		
Malabar (Wynaad and Pálghat) ..	9		414	1,120	..		33,782	..		
Malabar (Nilambúr)	802		..		..		5,055	..		
South Canara	474		13,497	1,425	..		37,599	24	443	9,466
Total ..	1,051,971¼	490	182,263	596½	29,058	1,012	77,113	10,159	1,402½	42,592

Annual Form No. 73-A.

Forest Department, Madras, Southern Circle.

Abstract howing the Value of Timber and other Produce at Sale Depôts for the year 1886-87.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		No.	Cubic feet.	Value.	No.	Cubic feet.	Value	In favor of the year.	Against the year.	
				RS.			RS.	RS.	RS.	
Chingleput ..	....	..	..	..	..	..	..	..	..	
North Arcot ..	Redwood roots and stumps	..	..	..	Tons. lb. 15 0	..	225	225	..	
	Jungle and babul wood (fuel)	Tons. lb. 160 1,656	..	321	191 948½	..	383	62	..	
	Sandalwood and roots	11 812	..	909	6 430	..	495	..	414	
	Total ..	172 228	..	1,230	212 1,378½	..	1,103	..	127	
South Arcot ..	Eruvadi logs	No. 9	Tons. lb. 35 3	18	..	..	..	..	18	
	Miscellaneous logs	95	350 9	219	..	..	..	..	219	
	Miscellaneous poles	31	85 9							
	Sandalwood billets	Tons. lb. 0 1,722	..	199	Tons. lb. 2 634½	..	514	315	..	
	Sandalwood roots	0 56	..	1	..	..	..	..	1	
	Honey	0 39	..	9	0 11	..	2	..	7	
	Thatching grass	..	..	..	1 0	..	1	1	..	
	Total ..	..	..	446	..	..	517	71	..	
Salem ..	Miscellaneous timber, &c.	No. 133	402 9 2	469	24	31 3 0	40	..	429	
	Sandalwood	Tons. lb. 2 297	..	853	Tons. lb. 2 1,435	..	1,056	203	..	
	Total ..	..	..	1,322	..	..	1,096	..	226	
Trichinopoly ..	Casuarina poles	No. 29	..	4	..	..	..	..	4	
	Firewood	Tons. lb. 77 2,041	..	308	212	207	634	326	..	
	Total ..	..	..	312	..	..	634	322	..	
Tanjore	....	..	..	..	..	..	..	..	..	

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1886-87—*continued.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favor of the year.	Against the year.	
		Mds.		RS.	Mds.		RS.	RS.	RS.	
North Coimbatore.	Sandalwood	71¼	..	249	67¼	..	234	..	15	
		No.								
	Teak logs	9	40 6	30	..	..	..	..	30	
	Teak saplings	26	..	..	..	..	..	..	..	
	Miscellaneous saplings	6	..	..	..	..	..	..	..	
	Total ..	..	..	279	..	..	234	..	45	
South Coimbatore.	Teak	389	8,964	6,538	348	11,556	8,307	1,769	..	
	Rosewood	272	4,341	2,170	150	2,302	575	..	1,595	
	Junglewood	3	78	20	..	..	..	..	20	
	Total ..	664	13,383	8,728	551	13,858	8,882	154	..	
Madura	Firewood	Tons. lb. 106 1,143	..	265	Tons. lb. 28 2,205	..	82	..	183	
Tinnevelly ..	Miscellaneous logs and planks	505	1,110	1,381	89	54	54	..	1,327	
	Miscellaneous pieces	..	..	..	155	..	30	30	..	
		lb.								
	Tanikoi	687	..	8	..	..	..	..	8	
	Total ..	..	..	1,389	..	..	84	..	1,305	
Malabar (Wynaad and Pálghat).	....	..	..	..	..	..	..	..	..	
	Selection felling.									
Malabar (Nilambúr)	Teak	..	..	..	272	..	4,000	..	..	
	Blackwood	..	..	..	108					
	Benteak	..	..	..	242					
	Miscellaneous	..	..	..	78					
	Clearings.									
	Teak logs	880	..	..	97	..	..	..	..	
	Teak poles	..	..	..	82					

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1886-87—*continued.*

District	Description of timber or produce	On hand at commencement of the year			On hand at end of the year			Difference in value		Remarks.
		No.	Cubic feet	Value	No	Cubic feet	Value	In favor of the year.	Against the year	
				RS			RS	RS	RS	
	Clearings—cont									
Malabar (Nilambúr) —*cont*	Blackwood logs	38	403		3					
	Blackwood poles	.	..	..	2					
	Benteak logs	370	27,827	..	179	..	1,000	..	..	
	Benteak poles	..			7					
	Miscellaneous logs	1,302			14					
	Miscellaneous poles	..	..	..	13					
	Thinnings									
	Teak saplings	.	..	..	..					
	Superior, large	3	68	51	2,829					
	Superior, small	..	..	.	2,709					
	1st class	1	..	..	3,714					
	2nd do	2	..	..	5,782					
	3rd do	10	..	..	8,859	..	45,000	..	..	
	4th do	49	..	..	15,892					
	5th do	36	.	..	10,179					
	6th do	7	..	..	905					
	7th do	..	.	..	1,129					
	8th do.	11	..	5	559					
	Bamboos (whole and pieces)	..	..	.	7,786	..	300	300	..	
	Karyas to be sold as firewood	..	..	..	2,775	..	100	100	..	
	Total	..	..	56	..	..	50,400	50,344	..	
South Canara	Teak	33	666¼	900	..	..	..	..	900	
	Blackwood	3	35½	43	22	417	589	546	..	
	Vengai	2	39	34	4	82	71	37	..	
	Miscellaneous	73	1,518½	1,015	68	1,584	1,235	220	..	
	Total	111	2,259	1,992	94	2,083	1,895	..	97	
		TONS. LB			TONS LB					
	Grand Total. Sandalwood [1]	15 402½	.	2,211	11 2,142½	..	2,299	..	..	
	Teak logs and poles	1,314 0	9,670⅜	7,468	3,274	11,556	8,307	..	..	
	Teak saplings	142 0	..	56	49,823	.	45,000		..	
	Blackwood	313 0	4,779½	2,213	285	2,719	1,164	..	..	
	Junglewood	3 0	78	341	..	..	383	..	..	
	Bamboos	..	..		7,786	..	300	..	..	
	Firewood	345 360	..	573	432 1,120½	..	816	..	..	
	Minor produce	0 726	..	17	1 11	..	3	..	..	
	Miscellaneous timbers, including vengai.	2,549 0 NO 6	31,368¾	3,140	398 3,250 0	1,750¼ ..	6,655 71	..	..	
	Total	..	..	16,019	..	..	64,927	48,908	..	

Annual Form No. 73-B.

Forest Department, Madras, Southern Circle.

Abstract showing the Value of Live Stock, Stores, Tools and Plant, for the year 1886-87.

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		No.	Value.	No.	Value.	In favor of the year.	Against the year.	
			RS.		RS.	RS.	RS.	
Chingleput	Surveying instruments	2	13	4	91	78	..	
	Tools	6	292	97	353	61	..	
	Furniture	11	91	23	284	193	..	
	Total ..	19	396	124	728	332	..	
North Arcot	Surveying instruments	27	701	30	839	138	..	
	Machinery	2	59	2	56	..	3	
	Tools	635	983	667	914	..	69	
	Furniture	67	254	68	265	11	..	
	Buildings	39	3,005	40	3,906	901	..	
	Total ..	770	5,002	807	5,980	978	..	
South Arcot	Surveying instruments	17	605	17	605	..	..	
	Machinery	4	76	7	256	180	..	
	Tools	267	154	336	208	54	..	
	Furniture	117	747	127	800	53	..	
	Miscellaneous	416	758	420	941	183	..	
	Buildings	9	2,365	9	2,365	..	..	
	Live stock	2	20	2	20	..	..	
	Total ..	832	4,725	918	5,195	470	..	
Salem	Surveying and other instruments	33	252	43	811	559	..	
	Tools	125	382	125	382	..	..	
	Furniture	15	91	16	115	24	..	
	Miscellaneous	7	28	7	28	..	..	
	Total ..	180	753	191	1,336	583	..	
Trichinopoly	Surveying and other instruments	3	55	4	307	252	..	
	Tools	479	621	715	788	167	..	
	Furniture	41	313	45	353	40	..	
	Buildings	12	1,415	13	1,565	150	..	
	Miscellaneous	85	223	133	549	326	..	
	Live stock	4	140	12	538	398	..	
	Total ..	624	2,767	922	4,100	1,333	..	

Abstract showing the Value of Live Stock, Stores, Tools and Plant, for the year 1886-87—*continued.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		No.	Value.	No.	Value.	In favor of the year.	Against the year.	
			RS.		RS.	RS.	RS.	
Tanjore	Surveying and other instruments	19	..	19	..	..	..	
	Tools	206	..	206	..	..	..	
	Furniture	20	..	20	..	..	..	
	Miscellaneous	20	..	20	..	..	..	
	Buildings	2	30	4	280	250	..	
	Total ..	268	30	269	280	250	..	
North Coimbatore ..	Surveying and other instruments	10	51	10	51	..	..	
	Tools	710	..	758	328	328	..	
	Furniture	142	..	170	47	47	..	
	Buildings	10	..	19	1,270	1,270	..	
	Total ..	872	51	957	1,696	1,645	..	
South Coimbatore ..	Surveying and other instruments	36	..	36	..	..	..	
	Tools	380	..	380	..	..	..	
	Furniture	146	..	152	24	24	..	
	Miscellaneous	7	..	7	..	..	..	
	Buildings	31	..	..	..	..	..	
	Live stock	1	..	..	..	..	..	
	Total ..	601	..	575	24	24	..	
Madura	Surveying instruments	21	439	21	439	..	..	
	Machinery	1	18	1	18	..	..	
	Tools	155	240	82	197	..	43	
	Furniture	69	85	69	85	..	..	
	Buildings	55	2,560	62	3,452	892	..	
	Total .	301	3,342	235	4,191	849	..	
Tinnevelly	Surveying instruments	25	322	27	533	211	..	
	Tools	234	88	231	243	155	..	
	Furniture	248	1,291	248	1,291	..	..	
	Buildings	63	3,847	63	3,847	..	..	
	Total ..	570	5,548	569	5,914	366	..	

Abstract showing the Value of Live Stock, Stores, Tools and Plant, for the year 1886-87—*continued.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		No.	Value.	No.	Value.	In favor of the year.	Against the year.	
			RS.		RS.	RS.	RS.	
Malabar (Wynaad and Pálghat).	Surveying and other instruments	8	270	13	406	136	..	
	Tools	11	205	11	205	..	..	
	Miscellaneous	32	192	32	192	..	..	
	Live stock	15	10,429	16	10,406	..	23	
	Total ..	66	11,096	72	11,209	113	..	
Malabar (Nilambúr) ..	Surveying instruments	2	..	2	..	..	..	
	Machinery	12	44	13	54	10	..	
	Tools	533	5	537	223	218	..	
	Furniture	27	..	34	149	149	..	
	Buildings	10	74	12	386	312	..	
	Building materials	6,000	59	..	..	..	59	
	Miscellaneous	91	314	136	531	217	..	
	Total ..	..	496	..	1,343	847	..	
South Canara	Surveying instruments	18	..	44	..	..	..	
	Tools	312	..	335	..	..	..	
	Machinery	1	..	1	..	..	..	
	Furniture	59	..	82	..	..	..	
	Buildings	12	..	12	..	..	..	
	Miscellaneous	254	..	252	..	..	..	
	Total ..	656	..	726	..	..	..	

ABSTRACT OF No. 73—B.

Chingleput	....	19	396	124	728	332	..	
North Arcot	....	770	5,002	807	980	978	..	
South Arcot	....	832	4,725	918	5,195	470	..	
Salem	....	180	753	191	1,336	583	..	
Trichinopoly	....	624	2,767	922	4,100	1,333	..	
Tanjore	....	268	30	269	280	250	..	
North Coimbatore ..	....	872	51	957	1,696	1,645	..	
South Coimbatore ..	....	601	..	575	.	..	..	
Madura	....	301	3,342	235	4,191	849	..	
Tinnevelly	....	570	5,548	569	5,914	366	..	
Malabar (Wynaad and Pálghat).	....	66	11,096	72	11,209	113	..	
Malabar (Nilambúr) ..	....	..	496	..	1,342	846	..	
outh Canara	....	656	..	726	..	..	..	
	Total ..	5,759	34,206	6,365	36,971	7,765	..	

ANNUAL FORM No. 74.

Forest Department, Madras

Statement of livestock in Southern Circle, during the year 1886-87.

PART I.

Elephants in possession of the Reporting Officers throughout the year.

District	Names	When purchased or otherwise obtained by Government	Cost of monthly keep including servants and food		Remarks
		Elephants		RS A P	
Malabar (Wynaad and Pálghat)	1 Chloe	Purchased in January 1878	Per head..	33 9 3	
	2 Phyllis . ..				
	3 Lakshmi	Transferred from Anamalais in May 1881			
	4 Sankara				
	5 Ranee	Captured in June 1885 .			
Malabar (Nilambúr)	1 Vixen	Transferred from Wynád in 1882	Per head	39 11 3	
	2 Poyroo				
	3 Sampson ..	Purchased from Mr Morgan in 1884			
	4 Eva .				
	5 Theebaw ..	Captured on 3rd January 1886			
	6 Lucy	Captured on 15th February 1886			
	7 Juno	Captured on 17th February 1886			
		Cattle			
South Arcot ..	1 Vellian } Buffaloes	Purchased in November 1885	Per head	4 10 9	
	2 Karuppan }				
Trichinopoly .	Six pairs of bullocks	Purchased in April 1885 and April 1886	Per head ..	4 13 8	
South Coimbatore	One bullock	Transferred from the late J C Department during 1882-83		7 4 2	
Madura ..	One pair of Kodaikanal depôt bullocks	Purchased in the local market in April 1885	Per head..	11 0 5	
Malabar (Wynaad and Pálghat)	Ten Coorg buffaloes	Purchased in 1884-85	Per head ..	1 2 3	

PART II

Elephants received in the year

District	Names	When purchased or otherwise obtained by Government	Cost of keep including servants and food		Remarks
		Elephants		RS A P	
Malabar (Wynaad and Pálghat)	1. Jumboo*	Captured 4th April 1886	Per head..	17 11 9	
	2 Juno†	Do 1st do			
	3 Maharajah‡ . ..	Do 18th do			
	4 Pokri .. .	Do 1st do ..			
Malabar (Nilambúr)	W Juno§	Purchased 15th December 1886		21 12 0	
		Cattle			
South Arcot ..	...	...	..	..	
Trichinopoly ..	4 pairs of bullocks ..	April 1886	Per head ..	4 13 8	
South Coimbatore	.	...			
Madura ..	1 pair of Navinipatti garden bullocks	Purchased on the 31st March 1886	Per head ..	1 12 0	
Malabar (Wynaad and Pálghat)	....		..	..	

* Maintained up to 31st March 1887 † Maintained for 8½ months
‡ Maintained for 5 months § Maintained for 3 months and 17 days.

PART III.

Elephants gone off the list during the year.

District	Names	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		How disposed of.
		Elephants			
Malabar (Wynaad and Pálghat).	1 Pokri *	Captured on the 1st April 1886.	Per head .	18 4 8	
	2. Juno †				
Malabar (Nilambúr)	....	....	..	..	
		Cattle.			
South Arcot	....	....	..	..	
Trichinopoly	....	....	..	..	
South Coimbatore	....	....	..	..	
Madura	....	....	..	..	
Malabar (Wynaad and Pálghat)	1 Coorg buffalo ‡ ..	Purchased in 1884-85 ..	..	9 0 0	

* Died on the 2nd September 1886. † Transferred to District Forest Officer, Nilambúr, on the 15th December 1886.
‡ Died in September 1886.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS,

FOR THE YEAR 1886-87.

CHAPTER I.

INTRODUCTORY REMARKS.

The chief works of the year under report have been, as in the preceding years, the inspection and selection of forests for reservation. Settlement has also progressed well in some districts. The chief work done was as follows:—

Ganjam.—Selection of village forests in the Goomsur taluk by the General Deputy Collector, assisted by the District Forest-officer Mr. A. W. Lushington.

Godávari.—Selection of 11 blocks for reservation in different taluks by Mr. J. S. Battie.

Kistna.—Selection of reserves in the mangrove forests of the Kistna delta by Mr. G. Homfray.

Cuddapah.—Final settlement of 10 blocks under section 16 of the Forest Act by Mr. A. W. B. Higgens, C.S., besides the issue of proclamations for 56 new blocks under section 16.

Kurnool.—Good progress of forest settlement work by Mr. D. Jagannadha Row Pantulu, one of the newly appointed Special Forest Settlement-officers.

Anantapur.—Selection of hill forests for reservation in Dharmavaram, Anantapur, Gooty and Tadpatri taluks by Mr. F. A. Lodge, and settlement of some of the forests already selected.

Nílgiris.—Completion of settlement work, except in Paranginád and Ootacamund settlements.

2. The rates of seigniorage on timber and other forest produce sanctioned in G.O., dated 23rd August 1886, No. 733, Revenue Department (Board's Proceedings, dated 18th September 1886, Forest No. 499), have come into force during this year.

3. Timber transit rules proposed in Board's Proceedings, Forest No. 609, of 8th November 1886, are still under reference and discussion. Draft rules have been passed for Bhadráchalam and Rékapalle in Godávari.

4. Special rules to regulate hunting and fishing in the Nílgiri reserved forests were sanctioned in G.O., No. 1070, Revenue, dated the 6th December 1886 (Board's Proceedings, Forest No. 6, dated 12th January 1887).

5. The area of forests in the Northern Circle was increased by 637 square miles, the changes being as follows:—

	SQ. MILES.
A. Reserved forests under Act V of 1882	+ 372
B. Do. do. under previous rules	— 15
C. „ „ Leased forests	...
D. Reserved lands	+ 280
E. Other forests	..
F. Unclassed forests and waste lands	...
Total ...	+ 637

The following statement gives the details for 1886-87 :—

Class of forest.	Area on 31st March 1886.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1887.	Source or cause of increase and decrease.
A. Reserved forests under Act V.	102	372	..	+ 372	474	15 square miles from B. 328 from D, 29 from F.
B. Reserved forests under previous rules.	802	..	15	— 15	787	15 square miles to A.
C. Leased forests	198	..	..	..	198	
D. Reserved lands	3,558	608	328	+ 280	3,838	328 square miles to A, 608 from F.
E. Other forests	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	29 square miles to A and 608 to D.
	4,660	980	343	+ 637	5,297	

Chapter II.—Areas and Boundaries.

6. Form No. 59 A shows the area of forests reserved under section 16 of the Forest Act. It will be observed that the area at the commencement of the year was 65,552 acres, that 237,838 acres were since added in Nellore, Cuddapah, Anantapur and Nílgiris, making the total at the end of the year 303,390 acres or 474 square miles.

7. Form No. 59 B is omitted this year also, as it is the same as that published with the report for 1884-85, with the exception of the following areas transferred to 59 A.

Districts.	Forest.	Acres.	
Anantapur	Gooty	331	Transferred in 1885-86.
Nílgiris	Benne	10,317	
	Ootacamund plantation	447	
	Coonoor	235	
Nellore	Ramapatam	39	Transferred in 1886-87.
Cuddapah	Kodur	5,266	
	Kamalapuram... ...	263	
	Gadikota	4,480	

8. The list of forests proposed for reservation under section 4 of the Forest Act during the year was as follows :—

Number.	District.	Name of Forest.	Notification number and date.
41	Anantapur.	Amagondapalium. Dokulkonda. Yerrakonda. Gootoor. Penukonda hill. Somandapally. Neiradykonda. Mallappakonda. Mallakaveimlakonda. Nyalakota. Yerlampalle.	Notification No. 166 of 8th May 1886.
42	Nilgiris.	Honnathalai (South). Bettumand (South). Rallia. Little Rallia. Rallia Shola. Naduhatti. Longwood Reserve (addition). Halakaray. Teppakuchi. Billithittu. Dolphin. Guernsey.	Notification No. 166 of 8th May 1886.
42	Nílgiris—*cont.*	Addition to Kullar Reserved Forest No. I. Addition to Kullar Reserved Forest No. II. Benhope No. II. Kodamalai. Jakanare slopes. Kallur. St. Catharine's Fall. Constantia. Tuttapolliam. Gudakalhalla. Bettu Nos. 1 and 2. Kunnavara Reserve (addition). Kanavatti. Deepdale. Gudakal. Clyffe. Yercaudhalla. Konakarai slopes. Shamrock.	Notification No. 168 of 8th May 1886—*cont.*

Number.	District.	Name of Forest.	Notification number and date.
42	Nilgiris—*cont.*	Bikkehatti. Ittakal Nos. 1 and 2. Mavada. Kuttadu Nos. 1 and 2. Vagupanai. Dodabetta. Sundatti. Kunshola. Kirkanara No. I. Do. No. II. Kelatti. Hadumund. Denad. Uppatti. Doddakavu. Ullavanadmund shola. Sinnattu shola. Madanad. Kodanad valley. Nadukaduhalla. Nodugula. Longwood Reserve (addition).	Notification No. 168 of 8th May 1886—*cont.*
43	Do. ..	Addition to Moyar Reserve.	Notification No. 281 of 7th July 1886.
44	Cuddapah.	Kondasankesula. Dabbudapalle. Dhodiyam. Malamidikambaladinno. Ponner. Gandikota. Yamavaram. Kosinepalle. Nidujubi. Kondapuram. Bhanakotamala. Mallola. Kommaddi. Animela. Tummalur. Gonamakalapalle.	Notification No. 304 of 24th July 1886.
45	Do. ..	Nigadi. Goduvelagala. Vellicholamalla. Mudupalajuvi. Mallaiakonda. Yeddalavaripalli. Pulikonda. Potapolu. Mudimadugu and Horsleykonda. Avalakonda. Kukaruzupalle. Tarigonda. Nurukupalakonda. Gutapalem. Doddipalle. Sorakayalapeta. Peddamallela. Marolla. Talakona. Bhakarapet.	Notification No. 305 of 24th July 1886.
46	Do. ..	Turupukonda. Kokaletikanama. Kothur. Gotimanikona. Cheyer. Badugantapalle. Yerrakonda. Kalasapad. Sancharla. Malliamkonda (addition). Chiyavaram. Avalapenta. Mushtiyeru. Kodivengamabawi. Marriutla. Tippayapalli. Mudumpad slopes. Wongimalla. Redlacheruvu. Ganganapalle.	Notification No. 306 of 24th July 1886.

Number.	District.	Name of Forest.	Notification number and date.
47	Godávari ..	Devancheruvu ..	Notification No. 308 of 26th July 1886.
48	Do. ..	Coringa	Notification No. 385 of 2nd November 1886.
49	Nilgiris..	Fernhill shola. Additions to Fairlawns Block No. I. Addition to Doddabetta No. II. Addition to Doddabetta Reserved Forest. Addition to Doddabetta No. II. Do. do. Bilikal road.	Notification No. 428 of 8th November 1886.
50	Godávari	Bendamurlanka. Narsápur.	Notification No 416 of 10th November 1886.
51	Do. ..	Ragoovapatnam. Sullanka. Anantavoram. Totapalle. Oligogola.	Notification No. 448 of 23rd November 1886.
52	Anantapur.	Kalyandrug (North). Do. (South). Ramgherry. Bhadrapoor.	Notification No. 8 of 22nd December 1886.
53	Kistna ..	Lakshmipuram. Do. Bandar Fort Reserve. Palakayatippa. Sorlagundi. Nachugunta. Yelichetidibba. Lankavanidibba. Kothapalem. Chagollu. Buddepudi. Chakicherla. Ramapatam.	Notification No. 91 of 8th February 1887.
54	Nellore ..	Ravur. Mocherla Chalamcherla. China Laterapi. Gudlur. Rudrakota. Maddurpad. Narayanapuram. Kavali. Zammalapalem. Zaladanki (East). Do (West). Gattupalli. Kesavaram. China Annalur.	Notification No. 96 of 15th February 1887.
55	Do. ..	Tummalapenta (North). Tummalapenta (South). Gollapalem. Tummalapenta (West) Talapalem. Bitragunta. Nagalavaram. Zakkepalli, Gudur. Chamadala. Manubolpad. Dundigam. Dharmavaram. Yellasari. Velliped. Ipuru. Tamenapatam (West). Momidi.	Notification No 97 of 15th February 1887.
56	Do. ..	Aukulapatur. Pidatalapudi. Kadived (North). Do. (South). Vodur. Nellaballi.	Notification No. 98 of 15th February 1887.

Number	District.	Name of Forest	Notification number and date
56	Nellore —*cont.*	Chillakur Gudur Vendodu Vedicherla Vindur Madamanur Idagali Sarvepalli. Kanupur (East). Do (West) Cherukumudi Kottapatam	Notification No 98 of 15th February 1887. *cont*
57	Do ..	Marripad Turimerla Dagadarti Kottapalli Vavveru Amancherla (West) Do (East) Dontali Chemudugunta Kakutur Nellore Kondlapudi Kandamur South Mopur Turpupundla	Notification No 99 of 15th February 1887
58	Do .	Sydapuram Chaganam Vutukur Turimerla. Tummalatalpur Marlapudi Potegunta Paluru	Notification No 100 of 15th February 1887—
58	Nellore—*cont*	Chikavolu Cherlopalli Potukonda Guttikonda Marellakonda. Vemunabhi Nellapalli Kakorlakonda Yerragondas Vavintaparti Kummaragunta. Pulikollu Mogallur Duggunta Podalakur Birdavolu Vadlapudi Marupur Toderu Nernur Chittaluru Ayyagaripalem	Notification No 100 of 15th February 1887—*cont*
59	Do ..	Telugurayapuram Turpukambhampadu Chejerla Shrikolanu.	Notification No 101 of 15th February 1887.
60	Anantapur	Dadithota Yellutla Chillawaripalle. Konakuntla Nairjampalle Yelanur. Yadaki	Notification No 134 of 28th February 1887.

9. *Demarcation.*—The work proceeded well in Ganjam, Godávari, Kistna, Cuddapah, Bellary and Nílgiris, while in Kurnool and Anantapur the progress was moderate, and almost nil in Nellore and Vizagapatam.

The following statement shows the extent of demarcation carried out in each district together with the cost incurred :—

District	Miles	Posts	Cost	Rate per mile
			RS	RS A P
Ganjam	380	..	3,128	8 3 9
Vizagapatam	.	..	..	..
Godávari	166	..	1,884	11 5 7
Kistna	87	345	1,833	21 1 1
Nellore	..		..	
Cuddapah	163	2,699	5,738	35 3 2
Kurnool	28	160	714	25 8 0
Bellary	162	249	1,227	7 12 2
Anantapur	75	273	1,697	22 10 0
Nilgiris	129	3,481	2,937	22 12 3

The cost of demarcation varies not only from district to district but also in the different parts of the same district, for it depends so much upon the nature of the tract, number and description of cairns or posts erected, width of line cut and the value of labor.

In Ganjam the outer boundaries of 10 reserves have been cleared, except where they touch on zemindaries, and in several other reserves some slight alterations have been made. Posts have not been erected in all places yet.

In Vizagapatam some demarcation was done in Sarvasiddhi taluk, but it had to be stopped as Government have limited the reserves to 5,000 acres in that taluk. Nothing has been done in regard to the few forests in the Golgonda taluk, as the Revenue Survey Department are demarcating them after settling the numerous disputes between the Government and private forests adjoining them.

In Godávari 15 reserves have been demarcated to the extent of 166 miles at a cost of Rs. 1,884, or Rs. 11-5-7 per mile. The breadth of the line cut was 10 feet

and boundary pillars were put up at every turn, but where the line was straight enough none were erected. In the Bhadráchalam taluk the lines are pretty long and straight, but it is not easy to make them so in the lower taluks.

In Kistna lines of 11 yards width were first cut, but Mr. Homfray reduced the breadth to 3 yards and saved the unnecessary expense.

In Cuddapah many of the blocks reserved and of those proposed for reservation have been demarcated with cairns of different sizes, and it is reported that these cairns where near enough will serve as a permanent boundary if a stone or post bearing the number of the mark is let in.

In the Kurnool district, Nandyál and Nandikótkur ranges have been completed on contract as before, also the Sirvél range, except 25 miles. It is reported that the lines cut and cleared in the previous years have been overgrown and had therefore to be recleared this year in some places (Veligondahs) at the expense of Government and in others—Uyalawada and Cumbum ranges—by the villagers in return for the timber cut on the lines.

In Bellary the cart-track of 10 feet along the boundary of the Ramandrug range has been extended by 1½ miles at a cost of Rs. 50, and Rs. 45 was spent in repairing other parts of the same track where it was washed away by rains. Another track of same breadth was commenced in the north-eastern range, and a mile-and-a-half was completed at a cost of Rs. 101-14-5.

In Anantapur, Amagondapaliem boundary was completed, and the remaining portion of the Muchukota forest boundary was cleared, and a patrol path made all round except where the boundary is likely to be altered. The Anantapur plantation was partially demarcated by a ditch 1,299 yards in length. Fencing was also commenced during the year with a view to forming a live hedge; bamboo seed was sown along a portion of the Kottakota boundary line, and dry stone walls three feet high were erected along 6, 5 and 1¼ miles of Kottakota, Gootoor and Amagondapaliem forests respectively; the cost varied from 96 to 110 rupees a mile.

In Nílgiris, Ootacamund Mukurty reserve was completely demarcated during the year. The demarcation work in Sígúr, commenced in 1885-86, has been completed. In the other ranges the existing boundaries were repaired and kept in order. The boundary pillars are regularly numbered by paint and are put up sufficiently strong and conspicuous. The boundary lines in some places have been made to serve as inspection paths and fire lines.

10. *Settlement.*—The work has not progressed well in Ganjam, and this is reported to be due to the constant changes in the Forest Settlement-officers in Berhampore, while in Goomsur a large number of claims had to be opposed by the District Forest-officer. In Godávari the work is in progress in Bhadráchalam, 12 blocks having been completed, and in the lower taluks proclamations have been issued for the reserves in the Tuni division.

In Kistna 5 reserves have been finally settled by the Sub-Collector, but final notifications under section 16 could not be sent up till after the close of the year.

Previous to January 1887 the settlement work in Nellore was entrusted to the Divisional officers, but as they had other duties to attend to, the progress in this respect was slow, so a special officer, Mr. Sárabhalingam Naidu, was appointed, and he has now completed the settlement of many of the reserves.

In Cuddapah the progress under Mr. Higgens was very satisfactory; 10 blocks, aggregating 269½ square miles, having been settled and notified under section 16 besides publication of proclamations for 56 new blocks.

In Kurnool and Bellary much work was done by Mr. D. Jagannadha Row. The final notifications of Nallamalai reserves in the former district await the result of appeal in certain cases to the District Court.

In Anantapur the progress was but slow owing to the Divisional officers having to do other duties of the Revenue Department, while in the Nílgiris the

settlement has been nearly finished by Mr. A. E. Castlestuart Stuart except in Merkunád and Ootacamund settlements.

Progress of settlement.

District.	Areas finally settled up to 31st March 1886.	Areas notified under section 4 up to 31st March 1886 but not settled.	Area notified under section 4 in 1886-87.	Total of 3 and 4.	Deduct areas settled in 1886-87.	Balance to be settled.
1	2	3	4	5	6	7
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Ganjam	..	704	..	704	..	704
Vizagapatam	..	..	..	..	..	..
Godávari	..	530	117	647	..	647
Kistna	..	611	79	690	..	690
Nellore	..	212	262	474	½	4,73½
Cuddapah	2½	1,358½	484	1,842½	269½	1,573
Kurnool	..	1,677	..	1,677	..	1,677
Bellary	..	198	..	198	..	198
Anantapur	5½	18	147½	165½	8	157½
Nílgiris	94	182½	32	214½	94	120½
Total ..	102	* 5,491	* 1,121½	* 6,612½	372	6,240½

* These areas are all approximate only.

11. *Reserved Lands.*—The list of reserved lands is given in form No. 59 C. It shows that the area at the commencement of the year was 3,558 (not 3,557) square miles, that during the year 608 square mile were added in Kistna, while in Cuddapah, Anantapur and Nílgiri districts 328 square miles were transferred to 59 A, these areas having been finally settled and declared as reserved forests. The total area of the reserved lands at the end of the year under report was therefore 3,838 square miles.

12. *Village Forests.*—The proposals regarding the constitution of village forests for Paranginád, Merkunád, Kundahnád and Todanád were submitted to the Board in February 1887 and the papers have since been returned to the Collector for some explanation. The selection of similar forests in other districts has not advanced, as the District Forest-officers are fully engaged in the selection and settlement of reserve. Mr. Gamble's suggestions on the subject are contained in his letter, No. 79, dated 6th April 1887, in Board's Proceedings (Land Revenue), Forest No. 233, dated 26th April 1887.

13. *Leased Forests.*—The leased forests in this circle are:—

	ACRES.
1. Mudumalai in Nílgiris	87,285
2. Sandúr in Bellary	40,000

The results of working in these are recorded under proper heads and statements further on.

14. *Under Settlement.*—There are not sufficient details in the annual reports to show as required by the Government of India in their review on the Madras reports for 1884-85 (*vide* G.O., No. 542, Revenue Department, of 1st July 1886). The annexed is a rough classification :—

Circle.	Reserved forests under Act V of 1882.	Reserved forests under previous orders.	Leased forests.	Reserved lands.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Northern . ..	474	787	198½	3,838

CHAPTER III.—SURVEYS, WORKING PLANS AND PLANS OF OPERATIONS.

15. *Surveys.*—Forest survey work has not been carried on in any of the districts except in Ganjam where the District Forest-officer reports that 9 reserves were completed by a surveyor employed from September 1886 to January 1887. In other districts this branch of work has not received attention, partly for want of proper establishment and partly pending selection and final settlement of reserves which take up all the time of District Forest-officers. However, to get through the work generally maps published by the Survey Department have been utilised as far as available. Reserves and other forests have been marked on all district maps (except Vizagapatam) on the 8 miles = 1 inch scale and sent from this office to Board and Collectors. In the Nílgiris the forests have been marked on village maps, and thus a complete record is made out.

16. *Working Plans.*—In paragraph 25 of the last year's report, Mr. Gamble fully explained the reasons for not introducing "permanent working plans." As the Acting Conservator holds the same opinion as his predecessor, he considers it needless to repeat them. During the year under report, Mr. Gamble has prepared preliminary working plans for the reserves in the Nílgiri district in a very full and exhaustive inspection note, dated the 6th April 1887, which will prove a most useful guide for forest operations. It is too long to quote in this report. Mr. Gamble proposes to divide the district thus :—

Coonoor Sub-Division.	*Head-quarter's Sub-Division.*
(1) Coonoor Range.	(5) Naduvatam Range.
(2) Melúr ,,	(6) Sígúr ,,
(3) Kotagiri ,,	(7) Mudumalai ,,
(4) Ootacamund ,,	

A further sub-division is proposed for Sigúr and Mudumalai. Mudumalai and Sandúr leased forests are being worked under the preliminary plans already made and mentioned in the report last year, and also the sál forests in Goomsur and casuarina plantations in Nellore.

17. The yield of the Sandúr leased forests was as follows :—

Teak poles			194
Poles, rafters, posts, &c.		No.	1,474
		cart-loads	155
Bamboos			35,150
Firewood		Tons	1,286
Charcoal	68 carts	= ,,	34
Brushwood	19 ,,	= ,,	9½
Myrabolams	177 maunds	= ,,	2
Tangedu bark	48 carts	= ,,	22½
Grass	28 ,,	= ,,	14
Iron ore	92 ,,	= ,,	46
Red earth	58 ,,	= ,,	29
Limestone	9 ,,	= ,,	4½

and some gums, fruits and miscellaneous barks.

18. The result of the preliminary working plan of the Sandúr leased forests was—

Block.	Compartment number.	Area.	Wood fuel	Creeper fuel.	Total
		ACRES	TONS.	TONS.	TONS
Ramandrug .. .	10	817	833	256	1,089
North-east range ..	1	847			
Donemalai	2	606			
Total .	..	2,270	..	..	1,089

or about half a ton per acre. As explained in paragraph 26 of the last year's report, the thinning should have been completed in the first two compartments of each block to adhere to the proposed working plan. The Collector reports that it was found impossible to catch up the lost ground, but states that due care was taken to remove only badly grown and unsound trees and creepers.

19. In the Ballipalle working circle in Cuddapah compartments 3 *c* and 7 *b* were cut over. The result of the cuttings was—

—	Area.	Engine fuel.	Small fuel.	Total.
	ACS.	TONS.	TONS.	TONS.
3 *c*.	35	200	179	379
7 *b*.	22	117	72	189
Total ..	57	..	..	568

or about 10 tons per acre. The outturn in both compartments was poor, partly due to the large proportion of deciduous growth mixed with the ever-green forest and partly to the proportion of standards left being larger than usual. The cuttings of the last five years have given therefore—

—	Acres.	Tons.	Per Acre.
1882-83	50	562	11¼
1883-84	55	907	16½
1884-85	46½	1,002	21⅝
1885-86	58	915	16
1886-87	57	568	10

or an average of 15 tons per acre.

20. The following tabular form gives the yield of the several compartments in Nilgiris cleared during the year according to the preliminary working plan of operations :—

Name of Reserve.	Number of block.	Name of compartment.	Area felled.	Age when felled.	Yield.		
					Loads.	Branchwood.	
						Head loads.	Bullock loads.
1	2	3	4	5	6	7	8
Ootacamund Range.			ACS.	YEARS.			
1. Aramby	II	4	6	20	809	..	..
2. Do	IV	6	3¾	9	1,390	..	..
3. Cairn Hill	IX	7	6	8	1,074	..	..
4. Baikie	..	3	12	11	2,460	..	..
5. Governor's Shola (Andy)	..	..	..	12	505	..	..
6. Do. do.	..	2	12	13	350	..	..
Coonoor Sub-division.							
1. Coonoor Peak Reserve	..	39	2·0	13	340	1,279	260
2. Do. do.	..	27	5·2	13¾	1,337	1,408	549
3. Do. do.	..	16	4·9	13½	305	1,155	281
4. Do. do.	..	34	5·5	13½	1,788	768	104
5 Do do.	..	5	2·0	14	290	..	.
6. Do. do.	..	40	4·5	14	505	800	103
7. Do. do.	..	36	6·1	14	482	569	200

Name of Reserve.	Standards left.		Belt.		Total in tons.
	Number of trees.	Probable yield.	Number of trees.	Probable yield.	
	9	10	11	12	13
Ootacamund Range.					
1. Aramby	..	..	..	..	361
2. Do.	..	..	..	..	621
3. Cairn Hill	..	..	..	..	479
4. Bankie	..	..	..	..	1,098
5. Governor's shola (Andy)	..	..	..	..	225
6. Do. do.	..	..	..	..	156
Coonoor Sub-division.					
1. Coonoor Peak Reserve	116	174	99	149	348
2. Do. do.	307	461	85	128	940
3. Do. do.	172	258	..	..	302
4. Do. do.	355	533	42	63	1,091
5. Do. do.	..	..	..	..	130
6. Do. do.	185	278	170	255	491
7. Do. do.	225	338	135	202	487

Chapter IV.—Protection and Improvement.

21. (*a*) *Establishments, Ranges and Beats*—(1) *Superior staff.*—This consisted at the close of the year of—

One Conservator ... ... Mr. Gamble.
Four Deputy Conservators—
Mr. Higgens, C.S. ... ... Cuddapah.
„ Vincent ... ... Nellore.
„ Hooper ... ... Kurnool.
Colonel Jago ... ... Nilgiris.
Seven Assistant Conservators—
Mr. Brougham ... ... Bellary.
„ A. W. Lushington ... ... Ganjam.
„ Battie ... ... Godávari.
„ Homfray ... ... Kistna.
„ Lodge ... ... Anantapur.
„ Sweet ... ... Vizagapatam.
„ P. M. Lushington ... ... Kurnool.

The only changes of any note during the year were that Mr. Lereschc died in Kurnool, Mr. Hooper returned from furlough in December 1886, Mr. Homfray acted as Examiner of Forest Accounts till 21st November 1886, then had charge of Nellore for about a month and half going to Kistna in January 1887. Mr. P. M. Lushington joined the service in December 1886.

22. (2) *Subordinate staff.*—The staff was as follows at the end of the year :—

District.	Office Establishments.		Forest Establishments.				Total.
	Clerks.	Peons.	Sub-Assistant Conservators.	Forest Rangers.	Foresters.	Forest Guards.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Conservator's office	320	56	..	..	..	..	376
Ganjam	45	58	..	180	45	122	450
Vizagapatam	35	21	.	50	60	103	269
Godávari	45	52	150	60	50	200	557
Kistna	65	58	200	100	95	282	800
Nellore	100	64	..	130	130	330	754
Cuddapah	100	88	150	315	190	428	1,271
Kurnool	75	58	..	150	115	206	604
Bellary	45	33	..	50	100	240	468
Anantapur	45	27	..	50	100	216	438
Nilgiris	110	46	75	130	165	244	770
Total ..	985	561	575	1,215	1,050	2,371	6,757
Forest School, or not yet employed ..	..	..	..	50	30	..	80
Balance saved	..	122	— 75	65	80	..	192
Grand Total sanctioned ..	985	683	500	1,330	1,160	2,371	7,029

In June 1886 three students were sent to the Forest School, Dehra Dun—one ranger and two foresters, of these latter one returned on account of illness

23. *Ranges and Beats*—No alteration has been made in the ranges and beats except in Nílgiris where the re-arrangement is as follows from 1st January 1887.—

	ACRES	SQ M
I Coonoor Sub-division—		
1. Coonoor range	22,720	35
2 Melúr	53,936	84
3 Kótagiri range	11,699	18
II Head-quarter's Sub-division—		
4 Ootacamund range	16,552	26
5 Naduvatam	16,135	25
6 Sígúr	50,682	79
7 Mudumalai	71,182	111
Total ..	2,42,906 = 379½ square miles	

The area of forests in each range or under the control of each Range-officer cannot possibly be given until all reserves are finally settled and surveyed The areas over which the ranges extend have been roughly calculated on the map for two districts besides the above and are appended below as an example—

Kistna district			Nellore district		
Range	Area		Range	Area	
	ACS	SQ MLS		ACS	SQ MLS
Bezváda ..	61,099	95	Kanigiri range . ..	34,200	53
Guntúr	21,288	33	Kávali	51,021	79
Sattonapalle ..	64 663	101	Udayagiri .	37,000	58
Vinukonda	108,817	170	Rápúr	94,680	147
Palnád	123,632	193	Nellore	24,280	38
Bápatla	18 569	29	Atmakúr .	3 920	6
Bandar	44,246	69	Gádur	21,400	43
			Sríharikót .	35,710	55
			Casuarina plantations	4,062	6
Total	441,314	690	Total	306,273	47

24. (*b*) *General protection and breaches of Forest rules*—Form 63 shows the prosecutions for breach of forest rules. The number of cases filed during the year was 994, adding 66 which were pending at the close of the previous year, the total number prosecuted was 1,060. Of these, convictions were obtained in 657, 300 acquitted, and 103 are pending The percentage of conviction was as follows —

Ganjam	59 5
Vizagapatam	68 0
Godávari	75 0
Kistna	71 9
Nellore	34 7
Cuddapah	63 1
Kurnool	67·0
Bellary	45 4
Anantapur	65 3
Nílgiris	74 2
Or on the whole	61 9

25. *Forest fires and fire-protection, Ganjam.*—A great many fires were reported, but the District Forest-officer seems to think that the results are not worse than they were last year, but that the increased number of reports was due to a better method of reporting and to a very large increase in the number of fire watchers.

Vizagapatam.—No detailed report is given.

Godávari.—Five blocks (Rapak, Ramachendram, Tatlunka, Devancheruvu, Kothapili) containing 57,600 acres were taken in hand for fire-protection and no fires occurred in them. Special watchers were employed only for the last two blocks and the rest were looked after by the heads of the surrounding villages. It is reported that Koyas have not come forward for employment in the forests, but that some arrangements will be made.

Kistna.—The result of protection is reported to be good, only 393 acres having been burnt out of 23,040 acres attempted.

Nellore.—Some serious fires occurred before June 1886, which are said to have been more difficult to provide against, owing to the want of settlement of the district boundary. No fires occurred after June.

Cuddapah.—Large areas were attempted, *i.e.*, 123,585 acres with fire-lines and 78,531 acres with watchers, and of these, 86,249 of the former and 68,334 of the latter were saved and the percentage protected was therefore 70 and 87 respectively. The difference is reported to be due to the fact that the areas specially protected are mostly in the drier part of the district and are surrounded by forest which is usually burnt, while the blocks taken under general protection consist of isolated hills or hills where it is not usual to burn the grass.

Kurnool.—No systematic operations have been carried out owing to change of officers; Mr. Hooper having joined the district in December 1886, it was too late to make any arrangement.

Bellary.—Large fires occurred; areas attempted were 63,654 acres by special and 107,877 by ordinary staff, and of these 10,070 and 31,280 respectively were burnt. There were three fires in the Rámandrug range, two in Donemalai and the north-eastern ranges.

Anantapur.—The results were fairly successful.

Nílgiris.—It is reported that such fires as took place were chiefly in grass lands and that the forests suffered little.

26. *Grazing.*—In Ganjam free grazing was allowed for the greater part of the year, but a restriction was made in notified reserved forests and fuel and fodder reserves towards the close of the year.

In Vizagapatam no restriction was made. In Godávari grazing dues to the amount of Rs. 971 were collected from the Cocanada coast forest only. No restrictions were made elsewhere.

In Kistna the right of grazing was sold.

In Nellore some grazing dues were collected under leases, but the amount is not known as they were erroneously credited to Land Revenue, and adjustment has not yet been made.

In Cuddapah grazing was allowed free over all reserved lands. In the Settigunta reserved forest a large area was open to free grazing. In about 200 square miles of reserved forest half fees were collected, but the result was very small, only Rs. 97 being credited. In the other reserved forests grazing was not permitted, but grass-cutting was permitted free of charge.

In Kurnool the high lands in the Nandikótkur taluk were let out on contract. No restrictions were made elsewhere.

In Bellary grazing fees were collected in the Bellary and Mincheri reserves, Rs. 193-15-0 being realised. Grass from the Sandúr reserves was allowed to be removed on payment, but only a small quantity was taken.

In Anantapur grazing was not allowed in the fire-protected areas, but the free removal of grass was allowed everywhere. From the Muchukota forest alone 15,000 head-loads were removed.

In the Nílgiri district only 4,651 acres of reserved forest were closed against grazing, whereas 29,595 acres were open to grazing on payment of fees. The amount collected was only Rs. 297.

27. *Ensilage.*—In Cuddapah some experiments were made. Two silos were made from funds supplied by the Agricultural Department, one of hill grass, the other of cholam stalks. The former has been opened and the contents were readily eaten by cattle. Another silo 31′ × 12′ × 6′ was dug in the forest at Gadila and filled with hill grass at a cost of Rs. 82. It has not been opened.

Two silos were made 15′ × 10′ × 6′ and filled with prickly-pear. The cost was Rs. 10. It is said in the Cuddapah annual report that this use of the prickly-pear was suggested by the late Commander-in-Chief. Since the rough draft of this report was written three Cuddapah silos have been opened. The grass and cholum silos were very successful, and natives tried them readily and with approval. The prickly-pear silos were a complete failure, as nothing but indigestible fibre remained. It was suggested in another district to sandwick prickly-pear with grass, so as to retain the moist portion of the prickly-pear.

In Bellary a silo 30′ × 12′ × 6′ was made under instructions from the Director of Settlement and Agriculture and filled with two kinds of grass. It has not yet been opened, because the people are so prejudiced against it that they will not try the ensilage.

In Anantapur two silos were made, but have not yet been opened.

28. *Natural reproduction.*—In Ganjam in the Ramba reserve the seedlings were choked up by a growth of bamboo. There is good reproduction in the Kaliamba reserve, the sál five years old seedlings growing about five feet during the year. In the Mojjagodo plantation self-sown teak seedlings are coming on well.

In Vizagapatam it is reported that a marked improvement is seen in the Sarvasiddhi forests, where protection has been adopted though grazing has been still permitted.

As to Godávari, Kistna, Nellore, Cuddapah and Kurnool, no remarks are made.

In Bellary it is reported that a marked improvement is seen in the Sandúr leased forest in the growth of seedlings.

In Anantapur it is reported that seedlings of Yepi (*Hardwickia binata*) have sprung up every year, but died down in the hot weather. Perhaps the cutting of grass has something to do with their disappearance. In Kottakota seedlings of all sorts are springing up.

In the Nílgiris the coppice growth in Aramby, Cairn Hill, Baikie and Governor's Shola has begun well in the compartments felled during the year.

In sholas where the strobilanthes and bushy undergrowth have been removed seedlings are coming up freely. Seedlings are also conspicuous in such sholas as have been treated on the system of a kind of coppice understandard. This system of treatment of sholas is, however, still the subject of much controversy.

In the Mudumalai range seedlings are coming up well in Moyar, Bokkapuram, Northerhay and Singara.

29. *Artificial reproduction.*—In Ganjam mahogany and *soymida febrifuga* seeds both failed. Teak and sál seeds succeeded; the seedlings of the former were sent for trial to the Berhampore fuel reserves, and of the latter to the Kistna district.

In Godávari some additions to the casuarina blocks have been proposed.

In Kistna small plantations have been sold and work concentrated on the larger. Corrections in the areas have been carefully made during the year. Sixty-five acres have been planted during the year. At the close of the year there were 974 acres costing Rs. 17,453 or Rs. 18 an acre against 945 acres costing Rs. 18,684 at the commencement. There were many casualties among trees owing to the drought.

In Nellore serious damage was done by the cyclone. Out of 49,285 casuarina plants put out in baskets at Sriharikót during the year, all but 10,312 were killed out by salt water. The whole southern plantation was abandoned.

Ironwood seedlings were sown at Sriharikót, but out of 2,216 seedlings which alone came up from 5 lbs. of seed, all but 110 were destroyed by salt water during the cyclone.

Mahogany did not succeed well. Out of 700 plants sent from Madras only 450 survive; and from 16 lbs. of seed sown at Sriharikót in October 1886 and March 1887 only 1,243 plants remain.

It is not clearly explained whether the cyclone had anything to do with the failures, but it seems questionable whether mahogany will succeed in sand.

Various other seeds were sown in large quantities with results that *soymida febrifuga* seeds germinated badly, nalla and tella tumma (babul) well.

STATEMENT showing the cost and yield, up to 31st March 1887, of the casuarina plantations in Nellore and Gúdúr taluks.

Plantation	Compartment number	Area.	Year of planting	Total expenditure up to 31st March 1887	Cost per acre	Yield up to 31st March 1886	Approximate return up to 31st March 1885		Yield during 1886-87				Approximate return during 1886-87		Grand total.	
							Rate	Amount	Cutting of storm wood	Clean felling					Total of columns 7 and 13	Total of columns 9 and 15
										Area	Tons	Total	Rate	Amount		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Dugarázapatnam ..	1	45	1873	10,131	225	344	6	2,064	..	..	..	..	..	..	344	2,064
	Interplanted		1874													
	2	26	1874	6,907	265	589	..	3,534	..	..	..	..	..	..	589	3,534
	3	30	1875	6,448	215	754	..	4,524	..	..	..	..	..	..	754	4,524
	4	59	1880	3,397	57	19	..	114	366		..	366	5	1,830	385	1,944
	5	104	1881	4,416	41	30	..	180	232		..	232	..	1,160	262	1,340
	1882	4	1882	..		..	..	..	20		..	20	..	100	20	100
	1883	73	1883	2,795	38	..	..	..	..	..	..	..	..	..	..	..
	1884	60	1884	2,007	33	..	..	..	..	..	..	..	..	..	..	..
	1885	30	1885	977	32	..	..	..	..	..	..	..	..	..	..	..
	1886	60	1886	220	3	..	..	..	..	..	..	..	..	..	..	..
Ebrow's tope	..	19	Resumed by Government under tope rules			504	..	3,024	..	..	..	..	..	..	504	3,024
Salt tope	..	4	..	..		35	..	210	..	..	..	..	..	.	35	210
Kottapatam	1	24	1873	6,004	250	66	..	396	..	24	985	985	..	4,925	1,051	5,321
	Interplanted.		1874													
	2	24	1874	6,536	272		..	..	..	24	884	884	..	4,423	884	4,420
	3	32	1875	6,170	192	116	..	696	..	32	690	690	..	3,450	806	4,146
	4	40	1880	3,082	77	5	..	30	69	..	..	69	..	345	74	375
	5	112	1881	4,407	34	..	..	..	188	..	..	188	..	940	188	940
	1882	16	1882	..	..	..	..	..	..	..	..	..	..	..	..	..
	1883	22	1883	906	41	..	..	..	1	..	..	1	..	5	1	5
	1884	37	1884	1,217	32	..	..	..	..	..	..	.	..	..	..	..
	1885	30	1885	664	22	..	..	..	..	..	..	..	..	..	..	..
	1886	25	1886	136	5	..	..	..	..	..	..	..	..	..	..	..
Chattram tope	Resumed by Government under tope rules.					120	..	720	..	..	..	..	..	..	120	720
Pamanji tope						169	..	1,014	..	..	..	..	..	..	169	1,014
Tummonapatam ..	1	41	1873	12,142	247	537	..	3,222	..	..	232	232	..	1,160	769	4,382
	Interplanted		1874													
	2	59	1874	9,576	162	1,008	..	6,048	..	..	..	..	..	..	1,008	6,048
	3	29	1875	7,878	271	587	..	3,522	..		..	..	..	..	587	3,522
	4	64	1880	3,808	59	12	..	72	..	..	..	..	..	..	12	72
	5	139	1881	5,779	26	22	..	132	..	..	..	..	..	..	22	132
	1882	81	1882	83	1	..	..	..	..	..	..	..	..	..		..
	1883	68	1883	2,043	30	..	..	..	..	..	..	..	..	..	..	..
	1884	30	1884	997	33	..	..	..	..	..	..	..	..	..	..	..

Statement showing the cost and yield, up to 31st March 1887, of the casuarina plantations in Nellore and Gúdúr talúks—*cont.*

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1887.	Cost per acre.	Yield up to 31st March 1886.	Approximate return up to 31st March 1886.		Yield during 1886-87.				Approximate return during 1886-87.		Grand total.	
							Rate.	Amount.	Cutting of storm wood.	Clean felling.					Total of columns 7 and 13.	Total of columns 9 and 15.
										Area.	Tons.	Total.	Rate.	Amount.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Tummenapatam—*cont.*	1885	10	1885	254	25	..	..	..	..	..	..	..	..	..	..	..
	1886	4	1886	120	30	..	..	..	..	..	..	..	..	..	..	..
	..	4	Resumed by Government under tope rules.			94	..	564	..	..	24	24	..	120	118	684
Ootcare	1	32	1875	7,527	238	94	5	470	..	..	..	..	..	..	94	470
	2	32	1880	3,927	123	22	..	110	..	..	..	..	..	..	22	110
	3	84	1881	4,584	54	8	..	40	..	..	..	..	..	..	8	40
Varny	1	40	1873	10,339	258	58	..	290	..	..	..	..	..	..	58	290
	Interplanted.		1874													
	2	40	1874	8,911	223	115	..	575	..	..	..	..	..	..	115	575
	3	40	1875	8,108	202	50	..	250	..	..	..	..	..	..	50	250
	4	40	1880	3,188	80	35	..	175	..	..	..	..	..	..	35	175
	5	80	1881	4,064	50	12	..	60	..	..	..	..	..	..	12	60
	1883	3	1883	73	24	..	..	..	..	..	..	..	..	..	..	..
	1884		1884													
Allipoorem	1	18	1870	8,579	476	147	..	735	..	..	..	..	..	..	147	735
	2	36	1881	707	20	..	..	..	..	..	..	..	..	..	..	..
Iskapalle	..	6	1870	960	160	104	..	520	..	..	..	..	..	..	104	520
	..	1,856	..	1,70,067	4,626	5,656	..	33,291	876	80	2,815	3,691	..	18,455	9,347	51,746

In Cuddapah some land has been added to the Reddipalle and Kamalápuram plantations, these additions being shown in statement 59-A.

The experiments with mahogany were not very successful. A new plantation of 30 acres was commenced at Pallegundala: 498 seedlings from Madras and 1,234 grown in Cuddapah were planted. All the former died and ⅓ of the latter.

In other plantations various operations were attempted, such as filling blanks by sowing tree seeds, and seeds of *Cassia auriculata* (tangedu). The latter experiment seems successful.

A few *Dalbergia Sissoo* and *Adenanthera pavoniona* seedlings put down are growing well. Red sanders seedlings were much destroyed by deer: 18,000 palmyras were put down on the banks of the Pennár.

On Horsleykonda Sandal and *Hardwickia binata* seeds were sown, but failed.

In the Balapalle nursery some 6,000 seedlings of various trees were raised and basketted, chiefly teak, mahogany and red sanders.

The red sanders trees in the sample area of Kódúr plantation show an average girth of 19·13 inches. Compared with former years the result is—

		Difference.
1st April 1883	17·88	...
„ 1884	18·28	0·40
„ 1885	18·75	0 47
„ 1886	19·02	0 27
„ 1887	19·13	0·11

Some trees were thinned out and some blown down by the cyclone. The result has been a loss of 35 trees out of 443. The tops of many were broken by the cyclone, and the average height is not more than 40 feet.

In Kurnool two so-called plantations were written off. They were never planted; a little broadcast sowing was attempted but nothing further.

In Bellary there was no regular plantation work, but some sowing was tried. Sowing seeds in prickly-pear has shown no results yet: 20 lb. of *Soymida febrifuga* seeds were sown in September in a nursery below Rámandrug. The result was very poor, only about 50 seedlings remaining. Experiments in sowing bamboo, teak, sandal, and *Hardwickia* seem also to have proved failures. Mango seedlings planted on the roadsides of the Rámandrug block are doing well.

In Anantapur very little was done—10 acres of Khojjepalle reserve were sown with babul (*Acacia arabica*) seeds and 10 acres of Anantapur reserve with palmyras.

30. In the Nílgiris, in Aramby reserve, 40,550 Bluegum, 700 shola trees and 7,000 Frenela were planted; casualties 5 per cent. Increase during the year is 10 acres.

In Cairn Hill reserve 3,270 *Cryptomeria* were planted and 14,400 Bluegum, 330 *Pinaster*, 1,970 Cypress, 7,300 Acacia, 300 Grevillea. A large proportion of these were employed in filling up vacancies. The increase during the year was 7 acres.

In Baikie 5,000 Bluegums were planted.

In Governor's shola 1,000. In Lovedale during the year were planted—

		Casualties.
Grevillea	567	5 per cent.
Cedrus Deodara	20	none
Melaleuca	100	all failed
Tristania	20	none
Cedrela toona	88	„
Acer oblongum	4	„
Pittosporum	137	„

In Coonoor sub-division 8,486 seedlings were planted in the Coonoor peak reserve consisting of teak and *Meliosma Arnottiana* in block I, *Planchoniana* and Bluegum in block II, *Cryptomeria japonica*, *Frenela rhomboidea*, Cypress and *Pinaster* in blocks III and IV and *Acacia decurrens* and *Casuarina* in block IV.

Vacancies in compartments 1, 2, 38 and 39 were filled with 4,099 basketted Bluegum.

In Brooklands 919 shola seedlings have been planted to fill casualties.

In the Ghát reserve 130 shola plants were added. The growth altogether is good, except in the case of a few oak and indigenous plants. *Eucalyptus planchoniana* is exceptionally striking.

In the Kullar reserve 7,209 mahogany plants have been planted in gaps in compartments 5, 4, 3, 2 and part of 1 in block IV, 700 *Berrya Ammonilka* were planted between the mahogany in compartments 4 and 5. Casualties are nearly 20 per cent., but the rest are flourishing.

Name of plantations.	Area stocked up to 31st March 1887.	Receipts.				Cost.				Surplus or deficit up to date.
		From the commencement up to 1876-77 (Estimate).	1877—86.	1886-87.	Total up to the end of 31st March 1887.	From the commencement up to 1876-77 (Estimate).	1877—86.	1886-87.	Total up to the end of 31st March 1887.	
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Governor's shola.	281	6,698	20,216	2,535	29,449	4,514	5,756	193	10,463	+ 18,986
Chomenguli ..	32	..	..	13	13	..	3,861	..	3,861	— 3,848
Muthanad ..	95	..	69	..	69	..	6,694	..	6,694	— 6,625
Brookbinds ..	10	360	376	..	742	187	141	..	328	— 414
Aramby	217	..	9,401	1,838	11,239	2,150	8,744	1,744	12,638	— 1,399
Marhamund ..	11	..	78	..	78	205	625	..	830	— 752
Snowdon ..	7	506	350	..	856	130	84	..	214	+ 642
Cairu Hill ..	149	..	2,085	1,160	3,245	..	9,125	1,641	10,766	— 7,521
Devashola ..	14	..	..	..	..	..	1,637	..	1,637	— 1,637
Blackbridge ..	56	..	..	..	..	1,040	881	..	1,921	— 1,921
Blackhouse .. / Bandyshola ..	232	16,466	3,773	285	20,524	4,350	145	66	4,561	+ 15,943
Coonoor Peak ..	226½	..	11,105	3,203	14,308	3,635	1,311	1,082	6,028	+ 8,280
Tippakutchi ..	35	...	21	..	21	650	133	..	783	— 762
Rallia	105	..	829	..	829	1,765	806	..	2,571	— 1,742
Total ..	1,471½	24,036	48,303	9,034	81,373	18,626	39,943	4,726	63,295	+ 18,058

31. *Topes.*—There is little or no detailed information given in any of the district reports under this heading. In Nellore a large number of outstanding claims for payment for work on those topes in the time of the jungle conservancy were settled during the year. The remainder of the claims are being inquired into by the Special Deputy Collector.

32. *Works of improvement.*—In Kistna the ceara rubber tried on the Kondapalli and Yenapalem hills failed on account of the sites being too dry.

In Cuddapah creeper cutting was continued over the following areas :—

Range.	Reserve.	Acres.	Cost.
Madanapalle ...	Horsleykonda ...	24	243
Kadiri	Nigadi	221	105
	Total ...	245	348

The growth in Horsleykonda is much more dense than in Kadiri. Kódúr plantation was thinned partially and creepers cut there and in Ooperapalle plantation.

In Kurnool improvement fellings were carried on in a block along the railway line in the Nandyál range. The object was to cut out the badly grown trees and sell the produce to the railway. The work was not altogether a success, as Mr. Hooper was obliged to be away on the Eastern Nallamalais during the commencement of the operations and was new to the district. About 1,200 acres were operated on, and 3,800 tons extracted from November to 31st March and 1,000 tons subsequently. Such of the trees as were properly felled in the later operations are showing good signs of reproduction from the stool.

In Bellary creeper cutting was continued in the Ramándrug block of the Sandúr range giving 256 tons at a cost of Rs. 144. Improvement thinnings were also carried on yielding 833 tons at a cost of Rs. 469.

In Anantapur over 12,000 creepers were cut by the fire patrols in Muchukota forest.

33. In the Nilgiris the result of cutting of creepers and strobilanthes were a follows :—

Name of reserve.	Acreage.	Cost.	Sale-proceeds from head-loads at 1 anna.
			RS. AS
Cairn Hill and Aramby	42	258	489 14
Lambs' Rock	52	312	504 14
Tiger Hill	14	84	227 1
Ghât	44	220	226 5
Stock on hand	...	...	110 0
Total ...	152	874	1,618 2

The result of improvement thinnings was—

Name of reserve.	Acreage.	Cost.	Sale-proceeds.
		RS. A. P.	RS. A. P.
Coonoor Peak	3½	31 0 0	178 15 0
Brooklands	1¼	43 14 0	146 2 0
Ghât	11½	130 12 0	453 0 0 (Estimated value).
Kullar	136	1,610 6 5	Not sold.

The following table gives the account current of thinning of block II, compartment 1, of Mudumalai leased forest from 22nd August 1886 to 31st March 1887 :—

Particulars.	Amount.	Particulars.	Amount.
Expenditure.	RS. A. P.	*Revenue.*	RS. A. P.
Cost of cutting 3,407 poles of teak, &c., at 1 rupee per 20 poles	174 13 7	Revenue realized by the sale of 100 teak poles, from 2 to 3 feet girth, at 4 annas each	25 0 0
Cost of cutting 1,924 poles, at 1 rupee per 16 poles	120 4 0	Revenue realized by the sale of 50 poles, 3 to 4 feet, at 8 annas each ..	25 0 0
Cost of cutting 609 poles, at 1 rupee per 8 poles	76 2 0	Revenue realized by the sale of 20 venghai poles, 2 to 3 feet girth, at 4 annas each	5 0 0
Cost of cutting 144 timber pieces, at 1 rupee per 8 pieces	24 0 0	Revenue realized by the sale of 5 venghai poles, 3 to 4 feet girth, at 8 annas each	2 8 0
Cost of cutting 3,583 cubic feet of teak, &c., at 9 pies per cubic foot	167 15 3	Revenue realized by the sale of 10 blackwood poles, 2 to 3 feet, at annas 4 each	2 8 0
Cost of cutting 46 acres of jungle clearing, at Rs. 4 per acre	184 0 0	Revenue realized by the sale of 5 blackwood poles, 3 to 4 feet, at 8 annas each	2 8 0
Cost of removing rubbish to roadside and burning 88 acres, at Rs. 2 per acre ..	176 0 0	Revenue realized by the sale of 1,500 cubic feet of timber pieces at an average rate of 3 annas per cubic foot.	275 0 0
Hire of 50 coolies employed in arranging the poles and timber pieces, &c. ..	12 8 0	Revenue realized by the sale of 600 cubic feet of teak, at 6 annas a cubic foot	100 0 0
Timber.		Revenue realized by the sale of 172 cubic feet of vengai, at 1½ anna a cubic foot	16 0 0
Cost of cutting and squaring 682 cubic feet of teak, at 1½ anna per cubic foot	53 4 6	Revenue realized by the sale of 141 cubic feet of black wood, at 7 annas a cubic foot	61 0 0
Cost of cutting and squaring 597 cubic feet of Vengai, at 1½ anna per cubic foot	46 10 3	Revenue realized by the sale of 50 cart-loads of jungle-wood, at Rs. 3 per cart-load	150 0 0
Cost of cutting and squaring 846 cubic feet of blackwood, at 1½ anna per cubic foot	66 1 6	*Timber.*	
Cost of cutting and squaring 128 cubic feet of mutti, at 1½ anna per cubic foot.	10 0 0	Revenue realized by the sale of 682 cubic feet of teak, at 12 annas a cubic foot	511 8 0
		Revenue realized by the sale of 597 cubic feet of venghai, at 5 annas a cubic foot	186 9 0
		Revenue realized by the sale of 846 a cubic foot blackwood, at 4 annas cubic foot	211 8 0
		Revenue realized by the sale of 128 cubic feet of mutti, at 3 annas a cubic foot.	24 0 0
Total ..	1,111 11 1	Total ..	1,598 1 0

34. *Charcoal.*—A Morean's oven was set up in Bandyshola. Only six experimental burnings were made, as there was a prejudice against the charcoal. Each burning takes about four days. The following table gives the results :—

Number of kilns.	Description of wood.	Quantity of wood stacked in the kilns.	Quantity of unburnt wood raked out.	Actual amount utilized.	Quantity of charcoal.	Ratio of columns 5 and 6.	Value of wood utilized at Rs. 1-6-0 per 1,000 lb.
1	2	3	4	5	6	7	8
							RS. A. P.
1	Acacia.	6,100	1,000	5,100	200	4	5 1 7
2	Do.	7,600	3,000	4,600	250	5½	4 9 7
3	Do	8,300	4,000	4,300	450	10¼	4 4 9
4	Do.	6,000	700	5,300	500	9½	5 4 9
5	Do.	6,500	2,000	4,500	550	12	4 8 0
6	Do.	6,600	2,000	4,600	550	12	4 9 7
	Total ..	41,100	12,700	28,400	2,500	..	28 6 3

Number of kilns	Description of wood.	Cost of cutting and splitting, carriage for wood utilized	Hire of charcoal burners.	Total cost.	Estimated value of charcoal.	Surplus.	Deficit.
		9	10	11	12	13	14
		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1	Acacia	3 13 2	1 12 0	10 10 9	4 0 0	..	6 10 9
2	Do.	3 7 2	1 12 0	9 12 9	5 0 0	..	4 12 9
3	Do.	3 3 7	1 12 0	9 4 4	9 0 0	..	0 4 4
4	Do.	3 15 7	1 12 0	11 0 4	10 0 0	..	1 0 4
5	Do.	3 6 0	1 12 0	9 10 0	11 0 0	1 6 0	..
6	Do.	3 7 2	1 12 0	9 12 9	11 0 0	1 3 3	..
	Total ..	21 4 8	10 8 0	60 2 11	50 0 0	2 9 3	12 12 2

Improvement may be expected when more experience has been gained in the working and when the prejudice against the charcoal is dispelled. Part of this prejudice was undoubtedly fomented by the regular charcoal dealers.

35. *Nurseries.*—The Lovedale nursery began last year was finished this year, and this nursery and those of Kullar and Coonoor are well kept up.

36. (*h*) *Experiments and exotic trees.*—From Ganjam a large quantity of tree seed was despatched for experiment. In Kistna the seeds of the Arabian date germinated well. A hundred were put out in February in the wild plantation. There are 300 more to be put out. There are 3,000 mahogany plants in pots ready for planting out, and a number of *Kigelia pinnata* seedlings were raised and given to the Municipality for avenue planting.

In Nellore only 100 of 500 Arabian date seedlings remain. Twelve plants of Malten edible cactus were planted and are doing well. They came from the Agri-horticultural Society at Madras. They were injured by bloodsuckers, whose depredations were prevented by covering them with network.

In Cuddapah the mahogany experiments have been already mentioned. *Dalbergia Sissoo* seems to succeed in the sandy soil of Kamalapuram plantation.

In the nursery beds are the following seedlings :—

Acacia melanoxylon	193
Acrocarpus fraxinifolius	250
Eucalyptus Globulus	28
„ rostrata	47
„ viminalis	23
Basketted—	
Cupressus torulosa	132
Chinese tallow tree (excæcaria)	128
Of Japanese trees planted out—	
Pinus densiflora	2
„ massoniana	6
Bista orientalis	16
Rhus sweedanea	4

In Anantapur some 80 out of 100 date trees received from Cuddapah are planted out and doing well. A few seedlings of *Acrocarpus fraxinifolius* seem to get on well and the experiment is to be tried on a larger scale this year.

In Nílgiris 4,098 mahogany seedlings are planted in the Kullar nursery. Seeds of five or six kinds of Eucalyptus are germinating in the Sim's Park nursery. All the seeds of *Quercus Thomsoniana* failed to germinate and very few of *Acer Hookeri* germinated. Not a single seed out of $\frac{3}{4}$ oz. of *Pteroxylon utile* germinated.

Of 1 lb. of dates sown in Sim's Park nursery on the 31st September 1886 not one has germinated up to the middle of July 1887. Seeds of ironwood, *Acer Campbellii* *Cupressus macrocarpa* and *torulosa* grow well.

37. *Communications and buildings—Roads—Ganjam.*—Two roads about six miles each were constructed, one from Tilasingi to Choudorgiri and another from Gullery to Sudugum for Rs. 1,950 each. They are reported to be very useful for timber traffic as well as for inspecting officers.

Godávari.—Three roads—

1. From Jirigupa to Palsumamidi,
2. „ Thakelbore to Bodhlúr,
3. „ Abicherla to Bandargudem,

measuring, respectively, 5, 6, and 11 miles, were made through the forests, besides some 5 miles cleared of roots at a total cost of Rs. 228. In Bhadráchalam more work could have been done but for the scarcity of labor. In the best parts of the year Koyas are engaged on cultivation and at other times they would not work.

Cuddapah.—Balapalle-Váyalpád road was constructed for five miles at a cost of Rs. 800 and this completes a distance of eleven miles from the railway to the last ascent to Mogilipenta. In other ranges some minor roads and repairs were made for Rs. 1,140.

Bellary.—The two ten-foot paths along the boundaries of Rámandrug and north-eastern ranges, mentioned in chapter II, are the only roads made.

Anantapur.—A road was commenced from Bukkapatnam to Narsampallo; a mile and half was completed for Rs. 455.

Nílgiris.—The following works were done :—

	Rs.
Aramby reserved forest, one new cart road, 1 mile and 3 furlongs	1,088
Cairn Hill „ „ „ 3 miles „ 2 „	1,725
Aramby „ (Koolie plantation) one bridle road, 856 yards	16
Cairn Hill (Bathri „) „ 1,320 „	35
Baikie reserve (Muthanad „) one inspection path, 280 yards ..	5
Coonoor Peak reserve, a new cart road in compartments 33, 39 and 40	130
„ „ a bridle path, 1,600 yards, at Rs. 60 a mile ...	54
Mudumalai roads, all repaired and made good	555

Buildings—Godávari.—Rest-houses were commenced at Waddagudem, Jirigupa and Ramaram, but not completed as the contractor was taken ill. An office was built for the gumastah at Jirigupa and, in the lower taluks, nine huts were built for forest guards at a cost of Rs. 105.

Kistna.—Two forest guards' houses and three plantation sheds were erected for Rs. 98.

Nellore.—Rs. 60 spent on adding a room to the Srírharikót houses.

Cuddapah.—The following were constructed :—

	Rs.
(1) Mogilipenta inspection house on the higher plateau of Seshachellam reserved forest (nearly complete)	813
(2) Kódúr range house (partly)	240
(3) Badvél do. with compound wall	450

Kurnool.—Rollapenta bungalow fell down in 1885 and is being reconstructed by the contractor at his own cost. Nandyál bungalow work has not proceeded as all the labor available is absorbed in the Nandyál Railway station buildings. The foundation and out-houses have, however, been given on contract at higher rates than those originally estimated.

Bellary.—The inspection shed on the Donemalai is under construction, and the ranger's house at Sandúr is reported to be in a dilapidated state.

Anantapur.—The head-quarter bungalow at Anantapur was completed during the year and 13 patrol huts and two forest guards' houses were built in different ranges for Rs. 117 and Rs. 52, respectively.

Nilgiris.—The following works were done:—

	RS.
Construction of a rest-house at Kullar	1,622
Repair of a rest-house at Naduvatam	128
Purchase of an iron shed for Coonoor fuel depôt	478
Construction of a store-house at Coonoor and a guard-house at Brooklands	190
Repair of Ootacamund forest ranger's office	70
Repair of the rest-house in Mudumalai	210

Boats.—Three boats were built for carrying fuel from Srîharikót to Madras depôt.

CHAPTER V.

38. *Yield and working*—(1) *Departmental work.*—Form No. 68 gives the trees felled by departmental agency during the year as 19,657 as follows:—

Teak	1,899
Venteak	12
Sál	402
Sandalwood	3
Blackwood	109
Satinwood	8
Ebony	4
Red sanders	177
Ironwood	180
Margosa	3
Babul	338
Yepi	73
Yegi	222
Chiriman	25
Nallamaddi	103
Palmyra	8
Eucalyptus	12,491
Acacia	523
Casuarina	543
Miscellaneous	2,534
Total ...	19,657

These details are given in order to show the extent of demand. The teak trees were all cut in the Nílgiris except 10 which were cut in Cuddapah, the sál in Ganjam, the casuarina in Nellore, the eucalyptus and acacia in the Nílgiris, babul in Anantapur and the red sanders in Cuddapah.

39. Form No. 69 shows the timber and other produce cut and collected by Government agency and its disposal either by sale or otherwise. Taking 50 cubic feet and 75 bamboos as the equivalents of a ton, the amount collected was—

District.	Timber.	Fuel and dry wood.	Bamboos.	Minor produce.	Sandalwood.
	C. FT.	C. FT.	C. FT.	Mds. of 25 lb.	Mds. of 25 lb.
Ganjam	12,115	25,700			
Vizagapatam	30	..	..	..	..
Godâvari	11,122	..	..	..	..
Kistna	270	1,400	..	..	..
Nellore	4,970	377,350	..	2,142	..
Cuddapah	826	94,874	..	7,808	..
Kurnool	..	250,677	..	470	..
Bellary	975	1,17,104	22,483	226¼	..
Anantapur	578	9,100	..	1,796¼	..
Nilgiris	21,644	325,887	..	1,988	2,000
Total ..	52,530	1,202,092	22,483	14,431	2,000 or 1,100 c. ft.

Subjoined is a comparison of the yield for three years :—

—	1884-85.	1885-86.	1886-87.
Timber .. .. .. C ft.	238,317	86,326	52,530
Fuel .. .. ,,	740,400	795,000	1,202,092
Bamboos .. .. .. ,,	29,450	4,600	22,500
Minor produce .. .. Mds	13,063	5,349	14,431
Sandalwood .. .. ,,	1,000	910	2,000

There was a great falling off in Ganjam which is explained as due (1) to depression in the timber trade in Calcutta, (2) to increased freight charged for transport to Calcutta owing to low value of rupee, (3) to the death of Mr. Duffield, the timber working agent of Messrs. Harden and Co.

The chief collections were sál in Ganjam, teak in Godávari, Bellary and Nílgiris; fuel and minor produce in Nellore, Kurnool and Bellary; red sanders in Cuddapah; eucalyptus, shola wood, &c., in Nílgiris.

The timber collections in Godávari were not so large as expected for want of elephants, which are not available. In Nílgiris the felling of timber was less than that of last year as the operations were confined to one block; but there was a great improvement in the cutting of fuel and its sale at the plantations.

40. Form No. 70 shows the receipts and issues of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

—	Timber, &c.,			
	Received.		Disposed of.	
	NO.	C. FT.	NO.	C. FT.
Ganjam	8,221	13,615	2,677	8,037
Nellore	4,093	2,697	4,803	3,418
Cuddapah	..	94,177	..	95,015
Anantapur	..	..	108	15
Nílgiris	1,407	4,650	960	1,159
Total ..	13,721	115,839	8,548	107,644

Fuel.

	Received Tons	Disposed of Tons.
Ganjam	50	36
Kistna	7	7
Nellore	5,141	3,980
Nílgiris	1,836	1,779
Total ...	7,034	5,802

Bamboos.

	Received No.	Disposed of No
Ganjam	1,200	1,200

Minor Produce.

	Received Mds.	Disposed of, Mds.
Ganjam	45,138	44,235
Nellore	1,401	1,539
Cuddapah	2,498	136
Kurnool	1,530	...
Bellary	...	77
Anantapur	1,570½	2,198
Total ...	52,137½	46,205

Which we can thus, as before, render approximately in tons as :—

	Received	Disposed of
Timber	2,317	2,153
Fuel	7,034	5,802
Bamboos	16	16
Minor produce	582	516
Total ...	9,949	8,487

Subjoined is a statement of sales in depôts for three year: —

—	1884-85.		1885-86.		1886-87.	
	Receipts.	Disposals.	Receipts.	Disposals.	Receipts.	Disposals.
Timber .. .. C. ft.	159,310	166,716	125,747	132,814	115,839	107,644
Fuel .. .. ,,	296,410	271,750	397,900	381,800	351,700	290,100
Bamboos .. ,,	28,400	4,300	1,650	25,750	800	800
Minor produce .. Mds.	7,381	6,754	4,300	5,549	52,137½	46,205

41. Form No. 71 shows the sales of timber, *first* from depôt; *secondly*, from the forest directly; and *thirdly* from drift. The entry of confiscated wood has been omitted. The following abstract of the form shows the sales of the year :—

Timber.

District.	Depôt.		Local.		Drift.		Total.	
	C. FT.	RS. A. P.	C. FT.	RS. A. P.	C. FT.	RS. A. P.	C. FT.	RS. A. P.
Ganjam	351	192 5 11	3,884	792 8 3	..	..	4,235	984 14 2
Vizagapatam ..	..	..	30	14 1 9	..	..	30	14 1 9
Godávari	..	..	..	..	11,122	3,107 10 9	11,122	3,107 10 9
Kistna	..	..	34	18 11 6	..	..	34	18 11 6
Nellore	640	135 8 6	2,294	484 2 9	..	..	2,934	619 11 3
Cuddapah	95,692	34,793 6 0	98	84 9 0	..	..	95,790	34,877 15 0
Bellary	..	..	975	365 3 10	..	..	975	365 3 10
Anantapur ..	15	4 8 0	81	7 14 6	..	..	96	12 6 6
Nílgiris	2,096	321 12 6	9,747	3,903 3 0	..	..	11,843	4,224 15 6
Total ..	98,794	35,447 8 11	17,143	5,670 6 7	11,122	3,107 10 9	127,059	44,225 10 3

Fuel.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS. A. P.	TONS.	RS. A. P.	TONS.	RS. A. P.	TONS.	RS. A. P.
Ganjam	50	21 7 0	..	..	..	..	50	21 7 0
Kistna	7	26 8 0	3	9 0 0	..	..	10	35 8 0
Nellore	3,910	31,749 7 1	1,517	9,113 12 7	..	..	5,427	40,863 3 8
Kurnool	..	..	5,013	19,296 8 5	..	..	5,013	19,296 8 5
Bellary	..	..	2,071	4,782 11 5	..	..	2,071	4,782 11 5
Anantapur ..	..	..	133	35 1 6	..	..	133	35 1 6
Nílgiris	1,239	8,877 1 7	1,796¾	4,925 7 9	..	..	3,035¾	13,802 9 4
Total ..	5,206	40,674 7 8	10,533¾	38,162 9 8	..	..	15,739¾	78,837 1 4

Bamboos.

District.	Depôt.		Local.		Drift.		Total.	
	NO.	RS. A. P.	NO.	RS. A. P.	NO.	RS. A. P.	NO.	RS. A. P.
Ganjam	1,200	0 4 0	..	..	..	..	1,200	0 4 0
Bellary	..	..	33,725	931 13 0	..	..	33,725	931 13 0
Total ..	1,200	0 4 0	33,725	931 13 0	..	..	34,925	932 1 0

Sandalwood.

	Sold locally.	
	MDS.	RS.
Nílgiris	2,000	9,000

Minor Produce.

District.	Depôt.		Local.		Drift.		Total.	
	MDS	RS. A. P.	MDS.	RS. A. P.	MDS	RS. A. P.	MDS.	RS. A. P
Ganjam	2,097	122 12 0	..	..	..	.	2,097	122 12 0
Nellore	1,534	2,007 10 3	217	202 5 0	..	..	1,751	2,209 15 3
Cuddapah	134	167 6 3	83	10 8 0	..	..	217	177 14 3
Bellary	67½	8 7 0	191¼	81 7 0	..	..	258¾	89 14 0
Anantapur ..	206	154 5 9	256½	97 6 3	..	..	462½	251 12 0
Nílgiris	..	..	1,923	1,019 14 0	..	..	1,923	1,019 14 0
Total ..	4,038½	2,460 9 3	2,670¾	1,411 8 3	..	..	6,709¼	3,872 1 6

Reducing all to tons we have—

		C. FT.	TONS.	RS.
Timber		127,059	2,541	41,226
Fuel		...	15,739¾	78,837
Bamboos	No.	34,925	465	932
Sandalwood	Mds.	2,000	22	9,000
Minor produce	„	6,709¼	75	3,872
Total ...		...	18,822¾	1,36,867

or an average receipt of nearly Rs. 7 per ton which is rather less than last year's receipt of Rs. 10 per ton. The maund has been taken at 25 lb. and the estimates made as they were last year (see paragraph 109 of last year's report). The total amount of material sold is greater than last year, especially in fuel and minor produce, though the amount realized is less, which is due to a falling off in the timber trade in Ganjam especially.

I append below a comparison statement of sales for three years.

—	1884-85.		1885-86.		1886-87.	
	Quantity	Amount.	Quantity.	Amount.	Quantity	Amount.
		RS.		RS		RS
Timber	c. ft. 159,544	75,987	c. ft. 197,976	75,819	c. ft. 127,509	44,226
Fuel	„ 448,250	61,919	„ 619,600	75,295	„ 787,987	78,837
Bamboos	„ 5,350	172	„ 27,950	662	„ 23,250	932
Sandalwood	mds. 875	3,414	mds. 910	3,081	mds. 2,000	9,000
Minor produce	„ 8,820	7,830	„ 6,175	5,830	„ 6,709	3,872

42. Form No. 73 shows the difference in value between the stock on hand at the beginning and end of the year in—

District.	On hand at commencement of the year.	On hand at close of the year.	Difference.
	RS.	RS.	RS
Ganjam	688	3,623	+ 2,935
Nellore	6,469	13,482	+ 7,013
Cuddapah	52	1,378	+ 1,326
Kurnool	..	191	+ 191
Bellary	30	..	— 30
Anantapur	549	2,353	+ 1,804
Nílgiris	2,825	4,064	+ 1,239
Total ..	10,613	25,091	+ 14,478

For the reasons already explained in paragraph 39 the receipts from sale of timber in Ganjam were very low. In Cuddapah a sum of Rs. 34,575 was received chiefly from red sanders; 1,800 tons at 18-4-0 and 100 tons at 17-4-0 or at an average of Rs. 18-3-2 per ton. The cost of bringing the wood to depôt was Rs. 7 as it had to come from great distances to depôts and the profit per ton was therefore 11-1-5 against 10-14-7 per ton in 1885-86. In Nellore the sales under fuel were moderate, the average rate being Rs. 8 per ton. In Kurnool and Bellary also large quantities were sold but at much lower rates. From Sandúr forests 33,725 bamboos were sold for Rs. 532.

43. (2) *Removal by purchasers.*—Form No. 72 gives the sales direct from the forests. According to the figures in form 64 the result compared with last year of timber and other produce removed by purchasers are—

	1885-86.	1886-87.
Ganjam	15,644	16,619
Vizagapatam	3,886	3,958
Godávari	47,554	43,562
Kistna	55,271	76,116
Nellore	7,959	31,811
Cuddapah	126,235	112,090
Kurnool	71,625	77,426
Bellary	17,539	19,206
Anantapur	14,334	17,789
Nílgiris	8,808	10,501
Total ...	368,855	409,078

The decrease in *Godávari* is chiefly under the head of timber, owing to the introduction of the higher rates in Bhadráchalam, which caused a temporary stoppage of the removal of timber thence. There was a considerable increase under sale of bamboos, owing to better supervision.

In Kistna grazing rents increased by Rs. 3,000 and minor produce sales Rs. 4,000, chiefly for soapnuts. This is a satisfactory sign, as the revenue from minor produce should develop largely.

In Nellore the whole increase is large, nearly Rs. 8,000 more than last year being realized under minor forest produce.

44. *Free grants.*—The District Forest-officer of Vizagapatam remarks:—"Free grants have been very extensive. I have repeatedly tried to get them stopped, as there is no provision for them and they are not permissible under the rules under the Forest Act, but the Collector would not stop their issue, and allowed free permits to be given for produce to all Government ryots by the tahsildars. The habit has been to give five bandy loads free for every Rs. 100 of kist the ryot paid. This for Pálkonda alone means 7,500 loads. I have no record of the amount actually given away in Pálkonda; I believe there were about 1,500 loads given away in Golgonda and none in Sarvasiddhi. There were probably 4,000 or 5,000 bandy loads given free in the three ranges of this district.

In Cuddapah some 185 tons of timber were given away to ryots whose houses had been burnt. There is little mention of free grants elsewhere.

45. *Drift and confiscated wood.*—The total under this heading was Rs. 4,554, of which Rs. 3,110 were collected in Godávari.

CHAPTER VI.

46. *Financial results.*—In form No. 64 is given the summary of revenue and expenditure of the year, the results being—

	RS.	RS.
Revenue		5,52,248
Expenditure A	2,20,443	
" B	2,14,523	
		4,34,966
Surplus ...		1,17,282

which is less than that of last year by Rs. 27,183. The net revenue is 21·2 per cent. of gross revenue which is a little less than that of the last year.

The comparison of revenue and expenditure for the districts is as follows :—

District.	Revenue.	Expenditure.	Surplus or deficit.
	RS.	RS.	RS.
Direction	69	48,663	— 48,594
Ganjam	19,827	35,981	— 16,156
Vizagapatam	4,365	9,868	— 5,503
Godávari	46,768	23,065	+ 23,703
Kistna	76,967	24,335	+ 52,632
Nellore	74,411	60,949	+ 13,462
Cuddapah	1,48,257	70,374	+ 77,883
Kurnool	97,506	33,281	+ 64,225
Bellary	25,177	31,065	— 5,888
Anantapur	18,227	20,934	— 2,707
Nilgiris	40,674	76,451	— 35,777
Total ..	5,52,248	4,34,966	+ 1,17,282

Compared with last year (see paragraph 128 of last year's report) it is noticeable that the surplus or deficit occurs in the same districts except in Ganjam and Nellore. In Ganjam the deficit is due to the falling off in the sales of timber and also to demarcation settlement and other charges. In Nellore the increase is due to the large amount of removals of minor produce (II-*e*) and also under the other heads of revenue.

47. Form No. 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue" and "Improvement of forests." The amount debitable to the first head under the usual distribution (which is the same as in the year 1884-85) is rather low and thus shows a deficit. It will be observed that there are deficits in Ganjam, Anantapur and Nílgiris, due to the large necessary expenditure on demarcation, settlement and communications.

48. Form No. 65 shows the liabilities outstanding against "Contractors and disbursers," chiefly the latter, showing a balance in favor of the department of Rs. 14,378. The large amounts of outstanding chiefly occur in Ganjam, Kistna, Nellore and Kurnool, which will be inquired into and worked off.

49. Form No. 66 shows the outstandings of revenue amounting to Rs. 4,873 mostly in Nellore and Nílgiri districts. In Nellore the outstandings are due from the Public Works department on account of the fuel supplied for the Sangam Project works; in the Nílgiris chiefly from Messrs. Groves and Co., large purchasers of timber.

50. Form No. 73 (*a*) and 73 (*b*) show the comparison between the value of (1) timber, &c., and (2) stores, tools and plant at the beginning and end of the year.

The true value of the year's transactions therefore is—

	RS.
Net revenue	1,17,282
Outstanding	+ 4,873
Do. advances	+ 14,387
Value of timber	+ 14,478
" " stock	..
	1,51,020

51. *Elephants.*—Form No. 74 gives the particulars of these. The condition and work of these elephants is not satisfactory. One of them is again pregnant; and lately a wild elephant has again hindered the work in these forests. In future it will be well to use only male elephants for forest work.

CHAPTER VII.

52. *General remarks.*—The Conservator, Mr. Gamble, visited during the year the districts of Godávari, Kistna, Cuddapah, Kurnool, Anantapur and Nílgiris. He also inspected the offices of these districts and also those of the range officers. During the year he spent 90 days in camp away from Madras or Ootacamund.

Much of the time spent at Ootacamund was, however, spent in getting the Nílgiri district into thorough order, and completing a set of most useful and important maps.

53. The following schedule shows the tours made by District Forest-officers during the year :—

District.	Names of officers.	Number of days.	
		In charge.	On tour.
Ganjam	Mr. A. W. Lushington, Assistant Conservator	365	236
Vizagapatam	„ H. T. D Sweet, Assistant Conservator	365	215
Godávari	„ J. S Battie, Assistant Conservator	365	237
Kistna	The Collector	68	..
	Somasundra Mudaliar, Sub-Assistant Conservator	222	139
	Mr. G. Homfray, Assistant Conservator	75	46
Nellore	„ F. D'A. Vincent, Deputy Conservator	275	92
Cuddapah	„ A. W. B Higgens, C S , Deputy Conservator	290	137
	„ C. L. Toussaint, Sub-Assistant Conservator in charge.	75	40
	Do. do. do. ..	267	205
Kurnool	„ H. P Leresche, Assistant Conservator	105	99
	The Collector	32	..
	Mr. H. H. Ward, Forest Ranger	112	73
	„ E. D. M. Hooper, Deputy Conservator	115	108
Bellary	„ J. H. B. Brougham, Assistant Conservator	335	109
Anantapur	„ F. A. Lodge, Assistant Conservator	365	254
Nílgiris	Colonel R. S. Jago, Deputy Conservator	365	176

The amount of tour work done was satisfactory.

It is to be noted with regret that Mr. H. P. Leresche, Assistant Conservator, 3rd grade, died on the 16th July 1886.

54. The Conservator (Mr. Gamble) has left on record the following notes on the work of the District Forest-officers :—

Mr. A. W. Lushington has continued to work with his usual energy in Ganjam, where unfortunately the difficulties in securing a market have caused a decrease in revenue.

Mr. Homfray acted as Examiner of Forest Accounts, and the Conservator acknowledges the care and tact which he displayed He took charge for a while of the Nellore district also, and was then posted to Kistna which he is speedily putting into good order.

Mr. Battie has done excellent work in Godávari in the judicious selection of reserved forests, the organization of revenue work, and the demarcation of the forests of the upper taluks.

Mr. Lodge has worked very well in the Anantapur district, but the Conservator regrets that he cannot say the same of Mr. Brougham's work in Bellary.

On Mr. Sweet's work in Vizagapatam, delayed by causes which are not entirely his fault, the Conservator does not wish to make any comment.

Mr. Higgens, C S., was in charge of the Cuddapah district throughout the year and was chiefly occupied in the work of forest settlement. His connection with the department will soon cease it is understood, and the Conservator desires cordially to acknowledge his services. Mr. Vincent remained as hitherto in charge of Nellore and did excellent work in the careful selection of reserved forests in the plains taluks. Mr. Hooper on his return from leave was posted to Kurnool and set to work at once in the organization of fuel cuttings and the demarcation and settlement of the Nallamalais reserves. The Conservator is indebted to Colonel R. S. Jago for his cordial assistance in the completion of the work of the selection of reserved and village forests on the Nílgiris.

55. *General health of the establishments—Ganjam.*—Much fever reported.

Vizagapatam.—Health good up to July; after that the District Forest-officer constantly ill with fever; one office peon died, and the second clerk ill for three months.

Godávari.—Health unusually bad. One forester, two revenue gumastahs and three peons died and many forest guards had to take sick leave.

Kistna.—No special report.

Nellore.—The District Forest-officer's health suffered much. The health of the establishment is reported good on the whole.

Cuddapah.—No special report.

Kurnool.—No special report.

Bellary.—Health generally good.

Anantapur.—The District Forest-officer suffered from sun exposure. There was a good deal of fever during the wet season and one guard died.

Nílgiris.—Health generally good except in Mudumalai.

56. The reports were received from many districts late, especially from Bellary and Nellore, the District Forest-officer of the former district having left on transfer without doing anything towards the completion of the report, and the District Forest-officer of the latter going on furlough. Many returns in other districts were imperfect and necessitated reference.

57. *Service Books.*—Returns regarding the upkeep of service books were called for in March last with reference to G.O., dated 22nd February 1886, No. 396, Public Department, communicated with Board's Proceedings, dated 12th March 1886, No. 613, but replies have been received only from five districts, viz., Ganjam, Vizagapatam, Nellore, Anantapur and Nílgiris to the effect that service books are properly maintained, though in the case of some newly-entertained men they have yet to be opened.

ANNUAL FORM No. 59-A.

Forest Department, Madras, Northern Circle.

Area of Reserved Forests under the Forest Act, 1886-87

District	Range	Name of Forest	Area on 1st April 1886. Acres	Area on 1st April 1886. Equivalent in square miles	Added during the year Acres	Excluded or transferred to other heads Acres	Area on 31st March 1887 Acres	Area on 31st March 1887 Equivalent in square miles	Number and date of notification of addition or transfer	Remarks.
Nellore	Ongole	Kotapatam plantation	..		35	..	35	..	No 291 of 22nd July 1886	
		Tummalapenta plantation	..	.	54	..	54	..	No 293 of 22nd July 1886	
		Karnpartti plantation	..	..	20	.	20	..	No 363 of 1st October 1886	
		Ramapatam plantation	..	..	39	..	39	..	No 362 of 1st October 1886	
		Total, Nellore	..	.	148	.	148	½		
Cuddapah	Kódúr	Kódúr plantation	50	..	..	..	50	.	No 39 of 6th March 1884	
		Thunakonda	1,048	2	..	..	1,048	2	No 39 of 6th March 1884	
		Uparapalli plantation	108	..	..	..	108	.	No 223 of 25th November 1884	
		Kódur	..	.	7,440	..	7,440	11½	No 335 of 23rd August 1886	
		Seshachallam	..	..	1,28,000	..	1,28,000	200		
		Settikunta	..	..	8,960	..	8,960	14	No 54 of 25th January 1887	
	Rájampet	Pullampet plantation	328	½	..	..	328	½	No 170 of 6th September 1884	
		Mittamidapalle	98	.	.	..	98	.	No 170 of 6th September 1884	
		Reddipalle	..	..	1,284	..	1,284	2	No 292 of 24th July 1886.	
		Vattalúr hill		.	2,880	.	2,880	4½		
		Sibyala			3,500	..	3,500	5½		
	Ráyachóti	Tsundupalle			3,000	..	3,000	4½		
		Gadikota	.	..	12,462	.	12,462	19½		
	Sidhout	Kanomalapalle	..	..	4,435	.	4,435	7	No 335 of 23rd August 1886	
	Cuddapah.	Kamalapuram plantation	.	..	485	..	485	1	No. 292 of 24th July 1886	
		Total, Cuddapah	1,632	2½	1,72,446	.	1,74,078	272		
Anantapur	Anantapur	Anantapur plantation	131	.	.	.	131	..	No 63 of 14th January 1885	
	Gooty	Khojjapalle	367	½	.		367	½		
	Penukonda	Narsampalle	1,280	2	..	..	1,280	2	No 346 of 5th December 1885.	
		Kottakota	..	.	5,120	..	5,120	8	No 53 of 25th January 1887.	
	Hindupur	Somarazamalai	1,920	3	..	..	1,920	3	No. 225 of 1st August 1885.	
		Total, Anantapur	3,698	5½	5,120		8,818	13¾		
Nilgiris	Ootacamund	Marliamund plantation	17	.		.	17	..	No 231 of 1st December 1884	
		Aramby	430	½	..	..	430	½	No 143 of 28th April 1885.	
		Marliamund	194		.	..	194	..	....	Marliamund, Therma tope and Nergodumund
		Cairn hill	559	1	.	..	559	1	....	Cairn hill, Fairlawns, Madanad and Bathri shola
		Brooklands	177	½	..	..	177	½	No 84 of 14th March 1885.	
		Lovedale	296	½	.	..	296	½	....	Lovedale, Elk hill, Manjinikorai.
		Craigmore	299	½	.	..	299	½	No 141 of 28th April 1885	
		Doddabetta	542	1	449	..	991	1½	No 307 of 11th August 1886	Mamalai, Doddahalla, Doddahalla sholas, Woodcock sholas, Kótagiri trace sholas

Area of Reserved Forests under the Forest Act, 1886-87—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nilgiris—*cont.*	Ootacamund—*cont.*	Snowdon	1,053	2	..	..	1,053	2	No. 141 of 28th April 1885.	
		Jakuntha	..	..	370	..	370	½	No. 165 of 12th May 1886.	
		Muthanád	420	1	..	..	420	1	No. 84 of 14th March 1885.	
		Governor's shola ..	2,694	4½	..	..	2,694	4½	....	Governor's shola, Baikie, Cully, Ulnad, Crocrmund.
		Pykara	1,309	2	..	..	1,309	2	....	Pykara and Yemmalkal.
		Sandynála	818	1	..	..	818	1	No. 89 of 5th March 1886.	
		Kengodu	415	½	..	..	415	½		
		Karpakan	391	½	..	..	391	½		
		Naduvatam sholas..	1,501	2	..	..	1,501	2	....	Naduvatam, Ochterlony, Terrace, Bellevue and Carritt sholas.
	Naduvatam.	Vellingiri	643	1	..	..	643	1	No. 89 of 5th March 1886.	
		Kadcoopa	1,622	2½	..	..	1,622	2½		
		Mukurti	8,953	13½	..	..	8,953	14	....	Nilgiri peak, Mukurti peak, Pichalbettu.
		Northernhay ..	..	..	3,998	..	3,998	6	No. 380 of 12th October 1886.	
	Melúr ..	Ithalar	..	..	460	..	460	1	....	Ithalar, Puthuhatti and Sillahalla.
		Devashola	..	..	215	..	215	⅓	No. 117 of 23rd March 1886.	Devashola, (north and south).
		Balakola	..	..	935	..	935	1½		Thalakad, Kothibanu, Melúr (west), Vugunthebettu, Maryland.
		Athigurahatti ..	..	..	34	..	34	..		
		Sutton shola ..	..	..	52	..	52	..		
		Commundu ..	..	..	993	..	993	1½		
		Pembroke	..	..	122	..	122	..		
	Coonoor..	Hulikal	..	..	6,411	..	6,411	10	No. 117 of 23rd March 1886.	
		Ilonnathalai ..	320	½	..	..	320	½	No. 88 of 5th March 1886.	
		Rallia	189	½	..	..	189	½	No. 89 of 5th March 1886.	Bettumand, Newman.
		Blackbridge ..	390	½	..	..	390	½	No. 232 of 1st December 1884.	
		Coonoor peak ..	540	½	..	..	540	½	....	Coonoor peak, Bandyshola, Bleakhouse, Springfield and Sim's park.
		Lambs' rock ..	708	1	..	..	708	1	No. 232 of 1st December 1884. No. 276 of 15th September 1885.	
		Tiger hill	328	½	..	..	328	½	....	Tiger hill and Brooklands.
		Ghát reserves ..	311	½	..	..	311	½	....	Townshola, River reserve Ghát reserve.
		Hillgrove	187	½	..	..	187	½	No. 276 of 15th September 1885.	Hillgrove and Benhope.
	Kótagiri	Kullár	1,815	3	..	..	1,815	3	....	Kullár, Adutholé, Barliyar.
		Kótagiri	563	1	..	..	563	1	....	Five reserves, see Annual Report, 1885-86.
	Mudumalai	Benne	10,317	16	..	..	10,317	16	No. 141 of 8th April 1885.	
		Moyár	13,238	21	..	..	13,238	21	No. 88 of 5th March 1886.	
	Sigúr ..	Kalhatti slopes ..	8,983	14	..	..	8,983	14	....	Tingara, Kalhatti, Bookcpuram
		Ebanád	..	..	571	..	571	1	No. 325 of 11th August 1886.	
	Kundahs.	Kundah	..	..	40,521	..	40,521	63	....	
		Mikkeru	..	..	1,267	..	1,267	2	No. 430 of 12th November 1886.	
		Thiashola	..	..	1,551	..	1,551	2½		
		Hiriyashige ..	..	..	2,175	..	2,175	3½		
		Total, Nilgiris ..	60,222	94	60,124	..	120,346	188		
		Nellore	..	..	148	..	148	½		
		Cuddapah	1,632	2½	172,446	..	174,078	272		
		Anantapur	3,698	5½	5,120	..	8,818	13½		
		Nilgiris	60,222	94	60,124	..	120,346	188		
		Grand Total ..	65,552	102	237,838	..	303,390	[illegible]		

Annual Form No. 59-C.

Forest Department, Madras, Northern Circle.

Area of reserved lands, 1886-87.

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Kistna	Bezváda	Kondapalle	..	..	33,722	..	33,722	52·5	Collector's notification, dated 6th Dec. 1884.	
		Koltur	..	..	7,593	..	7,593	12·0		
		Bezváda	..	..	1,216	..	1,216	2·0		
		Gunadala	..	..	1,107	..	1,107	2·0		
		Budaváda	..	..	7,740	..	7,740	12·0		
		Jaggayapeta	..	..	9,658	..	9,658	15·0		
	Guntúr	Kondavid	..	..	15,114	..	15,114	24·0		
		Tadepalli	..	..	2,800	..	2,800	4·0		
		Kuragalla	..	..	1,069	..	1,069	2·0		
		Nidamarru	..	..	581	..	581	1·0		
		Narakodúr	..	..	811	..	811	1·0		
		Karlapudi	..	..	913	..	913	1·5		
	Kroséúr	Vencatayapalem	..	..	46,201	..	46,201	72·0		
		Bellamkonda	..	..	1,990	..	1,990	3 0		
		Nevalepuri	..	..	11,870	..	11,870	18·5		
		Konanki	..	..	4,602	..	4,602	7·0		
	Vinukonda	Bollapalli	..	..	37,712	..	37,712	59·0		
		Guttikonda	..	..	42,241	..	42,241	66·0		
		Kakerali	..	..	28,864	..	28,864	45·0		
	Palnád	Madamapadu	..	..	9,960	..	9,960	15·5		
		Pasuvemulá	..	..	22,782	..	22,782	35·5		
		Kollagunta	..	..	34,947	..	34,947	55·5		
		Gungulagunta	..	..	24,514	..	24,514	38·0		
		Mutkur	..	..	31,408	..	31,408	49·0		
	Bápatla	Muttayapalem	..	..	9,842	..	9,842	15·0		
		Total	..	..	389,257	..	389,257	608·0		
Nellore	Kávali	Kávali	2,933	5	..	..	2,933	5	Collector's notice, dated 9th June 1886.	
Cuddapah	Kódúr	Reddipalle plantation	1,800	3	..	* 1,284	516	1	....	* Rectification of area; transferred to form No. 59-A.
	Cuddapah	Kamalapuram do.	500	1	..	500	..	..	....	Transferred to form No. 59-A.
	Kódúr	Settigunta	8,960	14	..	8,960	..	..		

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Kódúr	Kódúr	9,600	15	..	* 7,440	2,160	3½	....	
	Kódúr and Rajampet	Salivendra	19,200	30	..	..	19,200	30	Collector's notice, dated 6th Mar. 1884.	Proposed as reserved forest.
		Chitvel	10,240	16	..	..	10,240	16		
	Rajampet	Vattalur hill	3,200	5	..	* 2,880	320	½	....	
	Kodúr, Ráyachóti and Váyalpád.	Seshachellam	115,200	180	..	161,280	3,840	6	....	Transferred to form No. 59-A.
	Rajampet and Ráyachóti.	Rollamadugu	49,920	78						
		Gadikota	16,000	25	..	12,462	3,538	6	....	
	Cuddapah, Ráyachóti and Sidhout.	Palkonda	81,920	128	..	..	81,920	128	Collector's notice, dated 6th Mar. 1884.	
	Cuddapah, Ráyachóti and Pulivendla.	Idupulapaya	28,160	44	..	..	28,160	44		
	Badvél	Kavalakuntla	11,520	18	..	..	11,520	18	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest.
		Ganugapenta	17,280	27	..	..	17,280	27		
		Gopavaram	13,440	21	..	..	13,440	21		
	Badvél and Sidhout ..	Ramapuram	7,680	12	..	..	7,680	12		
	Sidhout	Malliamkonda	14,080	22	..	..	14,080	22		
		Konarazupalle	9,600	15	..	..	9,600	15		
		Vontimitta	5,760	9	..	..	5,760	9		
	Sidhout and Rajampet .	Kanakalakonda	6,400	10	..	..	6,400	10		
		Polur	7,680	12	..	..	7,680	12		
	Sidhout and Cuddapah .	Kanamalapalle	9,690	15	..	* 4,435	5,255	8		
	Sidhout, Cuddapah and Badvél.	Lankamala	112,640	176	..	..	112,640	176		
	Badvel	Kottakota	38,400	60	..	..	38,400	60	Do. do. ..	Do. do.
	Badvél and Proddutur .	Dasaripalle	66,560	104	..	..	66,560	104		
		Kanchalamaram	8,960	14	..	..	8,960	14		
	Ráyachóti ..	Sibbayala	3,840	6	..	* 3,500	340	½		
		Tsundupalle	4,480	7	..	* 3,000	1,480	2½		
		Madhavaram	5,120	8	..	..	5,120	8		
		Vandadi hill	3,200	5	..	..	3,200	5		Proposed as reserved forest.
	Ráyachóti and Váyalpád.	Urukonda	8,960	14	..	..	8,960	14		Proposed as reserved forest. Includes present Nadimcherla reserve, 2,000 acres.
	Madanapalle, Ráyachóti and Váyalpád.	Rekkalakonda	6,400	10	..	..	6,400	10	Do. do. ..	Proposed as reserved forest. Includes present Rekkalakonda reserve 1,200 acres.
	Váyalpád	Yellutla	7,680	12	..	..	7,680	12		Proposed as reserved forest and contain present Yellutla reserve, 3,500 acres.

* Transferred to form No. 59-A.

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Váyalpád ..	Gujjibuchukona	320	½	..	..	320	½	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest and now the Gorantlapalle reserve.
		Yerrumaralajedu	3,680	5¾	..	..	3,680	5¾		
		Ankalammakonda	2,800	4	..	..	2,800	4		Proposed as reserved forest and now the Ankalammakonda reserve.
		Nurukupalakonda	3,700	5¾	..	..	3,700	5¾		Proposed as reserved forest and now the Nurukupalakonda reserve.
	Madanapalle ..	Tavalam	5,120	8	..	..	5,120	8		Proposed as reserved forest.
		Mahdanikonda	1,920	3	..	..	1,920	3		
		Pentzapad	1,920	3	..	..	1,920	3		
		Analakonda	4,480	7	..	..	4,480	7		
		Aludineadugu	1,920	3	..	..	1,920	3		
		Horsleykonda	9,630	15	..	..	9,630	15		Proposed as reserved forest and now the Horsleykonda reserve.
		Madugamala	2,560	4	..	..	2,560	4		Proposed as reserved forest and includes the Kosimarapalle reserve 1,400 acres.
		Malliakonda	2,200	3½	..	..	2,200	3½		Proposed as reserved forest and now the Malliakonda reserve.
		Nallakonda .. .. / Kottammakonda and Erra-kasikonda.	3,840	6	..	..	3,840	6		Proposed as reserved forest and includes the Sompalle reserve, 800 acres.
	Kadiri	Ishwaramala	15,360	24	..	..	15,360	24		Proposed as reserved forest.
		Kokanti	2,000	3	..	..	2,000	3		
		Kadiri	10,240	16	..	..	10,240	16		Proposed as reserved forest and now the Kokanti reserve.
		Vellichellamala	2,560	4	..	..	2,560	4		
		Therumaladevarakonda ..	9,600	15	..	..	9,600	15		
		Nigadi	19,000	30	..	..	19,000	30		Proposed as reserved forest and now the Nigadi reserve.
	Kadiri and Pulivendla .	Gorivikanama	28,800	45	..	..	28,800	45	Pulivendla .. 31 / Kadiri .. 14	
		Dorigulla	30,720	48	..	..	30,720	48	Pulivendla .. 24 / Kadiri .. 24	
	Kadiri	Kukaravukonda	5,120	8	..	..	5,120	8	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest.
		Tumala	25,600	40	..	..	25,600	40		
		Malakavemulu	1,920	3	..	..	1,920	3	....	Proposed as reserved forest and includes part of reserved area now known as Malakavemulu, 5,500 acres.

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks
Cuddapah—*cont.*	Kadiri—*cont.*	Tummalamala	6,400	10	..	..	6,400	10	Collector's notice, dated 6th Dec. 1884.	Proposed as reserved forest and includes part of reserved area now known as Kondakomerla, 2,700 acres.
		Kondakomerla	3,200	5	..	..	3,200	5		
		Somarazumala (east)	1,280	2	..	..	1,280	2		Proposed as reserved forest and included part of reserved area known as Kondakomerla.
	Kódár	Settigunta	960	1½	..	..	960	1½	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
		Yerraguntlakota	6,400	10	..	..	6,400	10		
	Rájampet	Ananthasamudram	10,240	16	..	..	10,240	16		
		Sampaya ghât	3,200	5	..	..	3,200	5		
	Sidhout	Turupukondala	7,040	11	..	..	7,040	11		
		Ippakanama	1,600	2½	..	..	1,600	2½		
	Bádvel	Kalsapad	6,400	10	..	..	6,400	10	Collector's notice, dated 7th Mar. 1885.	Areas approximate only.
		Sancherla	5,760	9	..	..	5,760	9		
		Tsallagirigola	1,280	2	..	..	1,280	2		
		Badvél	1,920	3	..	..	1,920	3		
	Cuddapah and Pulivendla.	Ganganapalle	57,600	90	..	..	57,600	90		
		Chelakampalle	9,600	15	..	..	9,600	15		
	Ráyachóti	Bramanayerragudi	7,680	12	..	..	7,680	12		
		Haskapuram	23,040	36	..	..	23,040	36		
		Total	1,062,680	1,660	..	205,741	856,939	1,339		
Kurnool	Sirvel and Nandyál	Sirvel	128,000	200	..	..	128,000	200	Collector's notification of 6th Dec 1884.	Areas approximate only.
	Nandyál and Nandikótkur.	Nandyál	192,000	300	..	..	192,000	300		
	Nandikótkur	Nandikótkur	256,000	400	..	..	256,000	400		
	Cumbum	Uyalawada	448,000	700	..	..	448,000	700		
	Cumbum and Markapur.	Cumbum								
	Markapur	Markapur								
	Cumbum	Northern Veligondas	19,200	30	..	..	19,200	30		
		Southern do.	19,200	30	..	..	19,200	30		
		Western do.	10,800	17	..	..	10,800	17		
		Total	1,073,200	1,677	..	..	1,073,200	1,677		
Bellary	Kódligi and Hospet	Bandri	7,000	11	..	..	7,000	11	Notification of 15th Oct. 1884.	Areas approximate only.
	Hospet	Gound	3,000	4¾	..	..	3,000	4¾		

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1886. Acres.	Area on 1st April 1886. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1887. Acres.	Area on 31st March 1887. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Bellary—*cont.*	Hospet—*cont.*	Hospet	5,000	8	..	..	5,000	8	Notification of 15th Oct. 1884.	Areas approximate only.
		Jog	4,000	6¼	..	..	4,000	6¼		
		Oblagudi	1,000	1½	..	..	1,000	1½		
	Bellary	Bellary	8,000	12½	..	..	8,000	12½		
		Mincheri	4,000	6¼	..	..	4,000	6¼		
	Hospet	Tornagal	2,100	3¼	..	..	2,100	3¼		
	Kudligi	Sherbi	3,000	4⅝	..	..	3,000	4⅝		
		Gollalinganhalli	1,000	1½	..	..	1,000	1½		
		Tumurgudi	2,500	4	..	..	2,500	4		
		Somalapur	1,000	1½	..	..	1,000	1½		
		Sonkadakal	7,000	11	..	..	7,000	11		
		Shivpur	9,000	14	..	..	9,000	14		
	Adóni	Adóni (west)	5,000	8	..	..	5,000	8		
		Do. (east)								
		Ganekola	1,118	1¾	..	..	1,118	1¾		
		Badenahalli	792	1¼	..	..	792	1¼		
		Kotalam	681	1	..	..	681	1		
		Halekota	486	¾	..	..	486	¾		
		Sulakeri	1,342	2¼	..	..	1,342	2¼		
		Kupgul	4,650	7¼	..	..	4,650	7¼		
		Tungabhadra	4,633	7¼	..	..	4,633	7¼		
		Halevy	1,145	1¾	..	..	1,145	1¾		
		Kosgi	2,970	4⅝	..	..	2,970	4⅝		
		Nandavaram	971	1½	..	..	971	1½		
		Ráyachóti	1,863	2⅞	..	..	1,863	2⅞		
		Kurimetla	3,341	5¼	..	..	3,341	5¼		
		Bunivasi	1,964	3⅞	..	..	1,964	3⅞		
		Kotakallu	2,569	4	..	..	2,569	4		
		Kudbur	2,952	4⅝	..	..	2,952	4⅝		
	Hadagalli and Harpanahalli.	Harada	18,000	28⅛	..	..	18,000	28⅛		
		Sogy	4,200	6½	..	..	4,200	6½		
		Total ..	116,277	183	..	..	116,277	183		
Anantapur ..	Penukonda	Kottakota	3,840	6	..	3,840	..	..		Transferred to form No. 59-A.
		Narasampalli	2,560	4	..	..	2,560	4	Collector's notification, dated 7th Dec. 1885.	Areas approximate only.
		Somarazumallai (west)	210	..	..	..	210	..		
	Muchukota	Muchukota	7,040	11	..	..	7,040	11		
		Total ..	13,650	21	..	3,840	9,810	15		

Area of reserved lands, 1886-87—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nilgiris ..	Ootacamund ..	Nanjanad	1,327	2	..	..	1,327	2		
		Chemenguli	901	1	..	..	901	1		
	Naduvattam	Naduvattam	4,966	8	..	* 97	4,869	8		* Transferred to form No. 59-A.
	Ootacamund ..	Dodabetta Block I	310	1	..	310	..	..		Do. do.
		Do. do. II	115	..	..	115	..	..		
		Total ..	7,619	12	..	522	7,097	11		
	Abstract ..	Kistna	..	..	389,257	..	389,257	608		
		Nellore	2,933	5	..	..	2,933	5		
		Cuddapah	1,062,680	1,660	..	205,741	856,939	1,339		
		Kurnool	1,073,200	1,677	..	..	1,073.200	1,677		
		Bellary	116,277	183	..	..	116,277	183		
		Anantapur	13,650	21	..	3,840	9,810	15		
		Nilgiris	7,619	12	..	522	7,097	11		
		Total ..	2,276,359	3,558	389,257	210,103	2,455,513	3,838		

Annual Form No. 59-D.

Forest Department, Madras, Northern Circle.

Area of leased forests, 1886-87.

District.	Range.	Name of forest.	Area on 1st April 1886.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1887.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary ..	Sandúr	Sandúr	40,000	62½	..	..	40,000	62½		Rectification of error in the statement of the last year Annual Report.
Nilgiris ..	Mudumalai	Mudumalai	87,285	136	..	..	87,285	136		
		Total ..	1,27,285	198½	..	..	1,27,285	198½		

ANNUAL FORM No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1886-87.

District	Range	Name of plantation.	On 1st April 1886		Added during 1886-87		On 31st March 1887		Remarks.
			Area.	Cost	Area.	Cost	Total Area	Total Cost	
			ACS	RS	ACS	RS	ACS	RS.	
Godávari	Narsápur	Rustambadu	24	4,153			24	4,153	Formed in 1866-67
		Sitarampuram	26		..	..	26		
	Amalápuram	Bendamurlunka (old)	27	2,014	..	..	27	2,014	Do in 1875-76
		Do (new)	20	1,144	..	..	20	1,144	Do in 1882-83
		Total	97	7,311	..	..	97	7,311	
Kistna	Bandar	Karrimad	20	362	..	25	20	387	
		Mughudham	15½	239	— 15½	— 239	..	..	Sold
		Arselallit	25	356	— 25	— 356	..		Sold
		Masulipatam sepoy lines	46	1,229	48	1,307	94	2,536	Commenced in 1886
	Gudivada	Kodúr	38	174	2	60	40	234	
		Gopavampalem	..	..	15	188	15	188	Commenced in 1886
		Konkolu	17	1,149	(a) 120	270	137	1,419	(a) To correct area
		Allinagaram	125	671	..	100	125	771	
		Korlapadu	20	207	..	22	20	229	
		Mandaralli	20	209	—(b) 13	18	7	227	(b) To correct area
		Iyawar Rudravaram	20				20		
		Bannunampadu	26	250	..	60	26	310	
		Vemarrapadu	16	250	..	22	16	272	
		Venudhuru	64	290	—(c) 39	64	25	354	(c) To correct area
	Bezváda	Ibrampatam	24	196	..	60	24	255	
	Krósúr	Gannavaram	39	169	..	60	39	229	
	Palnád	Thurmerikodu	21	336	— 21	— 336	..	..	Transferred to form 61. Topes.
	Bápatla	Bápatla	21	485	—(d) 2	79	19	564	(d) Rectification of area
		Karlapalem	236	3,809	—(e) 161	120	75	3,929	(e) Do. do
		Vedhullapalli	20	371	—(f) 17	69	13	440	(f) Do do
		Chirala	17	1,291	— 17	— 1,291	..	..	Sold
		Wardarevu	23	3,499	(g) 47	72	70	3,571	(g) Rectification of area
		Ammilapeta	26	1,759	— 26	— 1,759	..	..	Sold
		Nayampalli	17	1,021	—(h). 7	79	10	1,100	(h) Rectification of area.
		Pandhillapalli	49	363	— 37	75	12	438	Do do
		Total	945½	18,684	+ 232 — 370½	+ 2,750 — 3,981	807	17,453	
Nellore	Gúdúr	Dugarázpatnam	455	35,190	60	2,158	515	37,348	Commenced in 1873
		Kothapatnam	385	28,141	25	985	410	29,126	
		Tamminapatam	485	41,761	4	919	489	42,680	Do in 1873
		Chandrasikuppam	10	218	..	404	10	622	

Area of plantations, 1886-87—*cont.*

District.	Range.	Name of plantation.	On 1st April 1886.		Added during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nellore—*cont.*	Nellore	Allipuram	39	9,278	..	9	39	9,287	Commenced in 1873.
		Utukúr	180	15,966	..	72	180	16,038	Do. in 1875.
		Varani	292	34,652	..	32	292	34,684	Do. in 1874.
	Atmakúr	Mamudúr	9	1,434	..	..	9	1,434	
	Kavéli	Tummalapenta	54	18,668	..	..	54	18,668	Do. in 1873.
	Kandukúr	Ramayapatnam	40	19,506	..	..	40	19,506	
	Ongole	Kothapatnam	35	14,666	..	..	35	14,666	
		Kanuparti	20½	16,498	..	..	20½	16,498	Do. in 1873.
		Total	2,004½	2,35,978	89	4,579	2,093½	2,40,557	
Cuddapah	Kódúr	Kódúr	37	6,938	..	72	37	7,010	Do. in 1865.
		Uparapalle	108	8,255	..	72	108	8,327	Do. in 1868-69.
		Reddipalle	925	13,160	..	72	925	13,232	Do. in 1869 70.
	Rájampet	Pullampet	426	7,892	..	72	426	7,964	Do. in 1871.
	Cuddapah	Kumalápuram	332	10,090	..	72	332	10,162	Do. in 1869.
	Kódúr	Arimanabunda	4	520	..	158	4	678	Do. in 1883-84.
		Pallegundalamadugu	..	..	30	228	30	228	Do. in 1886-87.
		Total	1,832	46,855	30	746	1,862	47,601	
Nílgiris	Ootacamund	Mudumalai	21	27,499	..	371	101	27,870	
		Benne	80						
		Northern hay	23	10,200	..	..	23	10,200	Old Sigúr plantation.
		Governor's shola	277	10,270	..	193	277	10,463	Includes the old plantations of Hoopatti Andy, Sheffield, Cully, Choughat cully, Baikic, and Madana commenced in 1880.
		Chemenguli	33	3,861	..	..	33	3,861	Commenced in 1879.
		Muthanad	95	6,694	..	..	95	6,694	Do. in 1880.
		Brooklands	10	328	..	..	10	328	Do. in 1862.
		Aramby	198	10,894	10	1,744	208	12,638	Do. in 1863, includes Koolie plantation.
		Marliamund	11	830	..	..	11	830	Do. in 1860.
		Snowdon	7	214	..	..	7	214	Do. in 1860.
		Cairn hill	145	9,125	7	1,641	152	10,766	Do. in 1877.
		Devashola	14	1,637	..	..	14	1,637	Do. in 1880.
		Blackbridge	56	1,921	..	..	56	1,921	Do. in 1874, includes Rock plantation.
		Bleak house	235	4,495	..	66	235	4,561	Do. in 1857.
		Bandy shola							

Area of plantations, 1886-87—*cont.*

District.	Range.	Name of plantation.	On 1st April 1886.		Added during 1886-87.		On 31st March 1887.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Nílgiris—*cont.*	Ootacamund—*cont.*	Coonoor peak	202	4,972	..	1,082	202	6,054	Commenced in 1872.
		Tippakutchi	35	783	..	..	35	783	Do. in 1882.
		Rallia	105	2,571	..	..	105	2,571	
		Total	1,547	96,294	17	5,097	1,564	1,01,391	
		CULTURAL OPERATIONS.							
Ganjam	Goomsur	Mojagodo	3½	609	..	33	3½	642	Formed in 1869-70.
		Total	3½	609	..	33	3½	642	
Vizagapatam	Pálkonda	Voni	25	451	..	..	25	451	
		Lakshmipuram	26	619	..	..	26	619	
		Total	51	1,070	..	..	51	1,070	
Kistna	Bezváda	Kondapalle	..	..	..	355	..	355	Experimental planting of rubber trees.
	Guntúr	Yerrapalem	..	..	..	93	..	93	
		Total	..	..	..	448	..	448	
Nellore	Kávali and Kandukúr.		..	324	50	..	50	324	Miscellaneous sowings in forest and among prickly-pear (40,700 pits dug and sown).
	Gádúr	Srírharikót	..	679	..	457	..	1,136	Sowing and planting of blanks in the natural jungle.
		Total	..	1,003	50	457	50	1,460	
Cuddapah	Cuddapah	Kamalápuram	10	..	..	..	10	..	Sown with Babul in 1884-85 but failed.
		Do.	4	16	4	2	8	18	Sown with Babul by goats and sheep in April 1885, March 1886 and August 1886.
		Do.	8	52	10	69	18	121	Sown with Drisanam and Vepa.
		Do.	27	38	15	18	42	56	Do. Palmyras.
		Do.	5	3	..	..	5	3	Sowings in prickly-pear mostly unsuccessful.
		Do.	..	..	3	17	3	17	Planting out and watering *Dalbergia sissoo* from baskets.
		Do.	..	..	¼	..	¼	..	Planting out Adenanthera *pavonicna* and edible cactus.
		Appaiapallo	2	..	..	..	2	..	Sowings of Vepa in prickly-pear.

Area of plantations, 1886-87—*cont.*

District.	Range.	Name of plantation.	On 1st April, 1886.		Added during 1886-87.		On 31st March 1887.		Remarks
			Area.	Cost.	Area	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Cuddapah—*cont.*	Appaiapalle	7	10	16	15	23	25	5,840 palmyras sown in furrows. 3,600 do. do. pits. 100 Drisanam seedlings
		Do.	..	..	½	..	½	..	A few seeds of *Adenanthera pavonina* and *Livingstonia Mauritiana* sown in March 1887.
	Rájampet	Pullampet	78	79	21	55	99	134	Sown with Tangedu after ploughing.
	Kódúr	Reddipalle	5	..	2	3	7	3	Do. do.
		Balapalle west reserve evergreen forest 1 compartment 5-*b* ..	12	9	..	..	12	9	No planting in 1886-87.
		Balapalle working circle 1 compartment 6-*b*	15	50	15	12	30	62	360 red sander seedlings put out in August 1886, many destroyed by deer.
		Kódúr tope	6	5	1	2	7	7	Sown with Tangedu seeds but failed.
		Ooparapalle	..	..	½	..	½	..	Drisanam Chinduga and Tangedu were dibbled in and germinated, but died away.
	Proddutur and Jaminalamadugu.	Gandikota reserve	320	18	1	..	321	18	20 lbs. vepa seeds sown but with little success.
		Pennér river bank near Proddutur.	107	73	28	41	135	114	18,000 palmyra seeds sown.
	Váyalpád	Ankalammakonda	15	20	7	41	22	61	Tangedu was dibbled in but has not been very successful.
		Nurupupalakonda	..	..	5	41	5	41	Do do.
	Kádiri	Nigadi	3	..	1	..	4	..	Tangedu seed dibbled in.
	Madanapalle ..	Horsleykonda	..	..	2	..	2	..	Hill side sown with sandalwood seed.
		Do.	..	..	..	..	..	..	Planted with Chinna tallow trees.
		Do.	..	..	..	..	..	..	Sandal seedlings planted in the garden.
		Do.	..	..	1	..	1	..	Sown with *Hardwickia binata* on hill side seed germinated but failed.
	Kódúr	Balapalle	2	250	..	409	2	659	Nurseries.
	Madanapalle ..	Horsleykonda	1	..	..	39	1	39	
		Total ..	627	623	133	764	760	1,387	
Kurnool	Nandyál	Orwakul	46	30	— 46	— 30	..	..	Abandoned as the experiment was a complete failure.
	Nandikótkur ..	Mandalam	10	10	— 10	— 10	..	..	
		Total ..	56	40	— 56	— 40	..	..	
Bellary	Hospet	Gandlavattugiri	4	..	..	..	4	..	
		Nayanahalli	10	..	..	..	10	..	
		Total ..	14	..	..	..	14	..	
		Total Plantations ..	6,426	4,05,122	— 2½	9,191	6,423½	4,14,313	
		Total Cultural operations ..	751½	3,345	127	1,662	878½	5,007	
		Grand Total ..	7,177½	4,08,467	124½	10,853	7,302	4,19,320	

ANNUAL FORM No. 61.

Forest Department, Madras, Northern Circle.

Annual statement of Topes.

District	Taluk.	Number of topes.	Area	Cost		Remarks.
				During year	To end of year.	
			ACS.	RS.	RS	
Ganjam	Berhampore	3	13	..	..	
	Goomsur	1	83	36	198	
	Chicacole	3	5	..	..	
Vizagapatam	Pálkonda	2	56	..	8	Mixed trees.
Godavari	Ramachandrapuram	8	30	..	..	
Kistna	Bandar	2	9	226	477	In Masulipatam.
	Gudivada	1	5	37	207	
	Bezváda	2	9	48	371	
	Nandigáma	1	11	53	238	
	Vinukonda	1	6	43	209	
	Narsaraopet	1	7	43	174	
	Sattenapalle	1	6	..	..	
	Bápatla	1	2	37	1,241	
	Rópalle	1	1	..	..	
	Palnád	1	21	60	396	Transferred from form 60. Plantation.
Nellore	Gúdúr	11	124	..	3,206	
	Rápúr	15	183	..	8,533	
	Nellore	33	380	..	6,599	
	Vonkatagiri	3	12	..	4,420	
	Atmakúr	9	130	..	2,793	
	Kávali	17	742	..	4,190	
	Udayagiri	4	29	..	2,665	
	Kandukur	6	13	..	1,853	
	Kanigiri	5	19	..	1,408	
	Ongole	4	107	..	1,212	
	Podili	4	13	..	1,165	
Cuddapah	Pullampet	7	69	158	5,417	
	Sidhout	4	40	99	8,039	
	Badvél	6	63	102	2,567	
	Proddutur	2	32	1,194	1,710	
	Janumalamadugu	9	309	132	12,351	
	Pulivendla	10	638	180	4,725	
	Cuddapah *	7	148	295	5,361	
	Kudiri	8	73	17	2,142	
	Madanapalle	8	68	184	6,234	
	Ráyachóti	5	95	..	1,615	
	Váyalpád	3	30	13	3,438	
Kurnool	All	..	5,764	..	.	Scattered trees in villages.
	Rámallakót	7	66	..	839	
	Pattikonda	5	29	..	1,879	
	Kóilkuntla	4	9	..	3,683	
	Nandikótkur	1	2	44	257	
	Nandyál	3	33	100	1,077	
	Sirvel	1	6	.	147	
	Cumbum	3	23	86	261	
	Márkápur	3	14	..	257	
Bellary	Bellary	6	86	..	..	
	Kúdligi	4	9		..	
	Hadgalli	2	11	..	41	
	Harpanahalli	2	3	..	..	
	Alúr	11	101	..	..	
	Adóni	6	30	..	186	
Anantapur	Anantapur	5	124	..	125	The Collector having reported that the figures given in this year's return are correct, I have adopted them, hence is the difference in the number of topes, area and cost.
	Gooty	10	184	..	48	
	Tadpatri	15	565	..	48	
	Dharmavaram	29	1,555	96	2,174	
	Hindupur	16	121	..	90	
	Penukonda	15	310	..	..	
	Madakasira	5	26	..	36	
Nílgiris	Coonoor	1	2	156	625	
	Total	363	12,654	3,439	1,07,433	

* Bhakarapet tope 7-A made over to District Board

Annual Form No. 62.

Forest Department, Madras, Northern Circle.

Area of Forest tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87.

District and Range.		Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Ganjam ..	Berhampore	Mohiri hills	19,199	305	19,200	320	18,880	174	479	1885	Specially protected.
	Kukuluba	Chondargiri and Ambazara ..	46,045	353	5,120	480	4,640	103	456		
	Mojagodo	Baibali and Darpangia	21,775	125	21,775	..	21,775	..	125		
		Total ..	87,019	783	46,095	800	45,295	277	1,060		
Godávari.	Bhadráchalam	Rapak	..	..	12,600	..	12,600	..	..	1887	Ordinary staff.
		Rámachandram	..	..	10,300	..	10,300	..	..		
		Tatlunka	..	..	800	..	800	..	..		
	Rajahmundry	Devanecheruva	..	..	5,000	..	5,000	..	..		
		Kothapalle	..	..	21,700	..	21,700	..	..		
		Total ..	..	..	50,400	..	50,400	..	..		
Kistna ..	Bezváda	Kondapalle	8,320	740	8,320	320	8,000	504	1,244	1884	Specially protected.
	Vinukonda	Bollapalle	6,400	614	6,400	..	6,400	57	671	1885	
	Palnád	Mutukur	6,400	95	6,400	73	6,327	100	195		
		Madhinapadu	1,920	110	1,920	..	1,920	82	192		
		Total ..	23,040	1,559	23,040	393	22,647	743	2,302		
Nellore ..	Rápúr	Rápúr Veligondas	13,000	60	14,000	1,000	13,000	135	195	1885	Ordinary staff.
	Udayagiri	Udayagiri	8,000	70	9,360	1,360	8,000	..	70		
	Kanigiri	Kanigiri	34,000	..	34,000	..	34,000	..	..		
		Total ..	55,000	130	57,360	2,360	55,000	135	265		
Cuddapah ..	Kódúr	Ballipalle, (west)	6,307	1,351	6,307	..	6,307	233	1,584	1867	Specially protected.
		Do. (east)	6,404	1,389	8,900	2,500	6,460	302	1,691	1871	
		Kódúr hill	4,687	913	7,440	1,000	6,440	309	1,222	1874	Ordinary staff.
		Vagotikona	3,595	466	3,595	1,280	2,315	51	517		
		Yerraguntlakota	3,487	856	3,000	150	2,850	144	1,000	1873	Specially protected.
		Rallakonda	1,565	321	1,565	1,565	..	57	378	1879	
		Gudela	9,682	549	6,800	6,000	800	98	647	1874	Ordinary staff.
		Thanakonda	1,048	351	1,048	7	1,041	56	407		Specially protected.

Area of Forest tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.		Forest Tract	Area on 1st April 1886		During dry season of 1886-87				Total cost up to 31st March 1887	Year when protection commenced.	Remarks
			Area actually protected	Total cost	Area attempted to be protected.	Fires	Area actually protected	Amount expended.			
			ACS	RS	ACS	ACS.	ACS	RS	RS		
Cuddapah—*cont*	Rájampet	Rollamadugu	5,424	154	5,424		5,424	90	244	1878	Ordinary staff
		Srirangarazupallium	4,640	562	5,000	680	4,320	177	739	1883	Specially protected
	Kadiri	Nigadi	14,000	577	14,000	800	13,200	110	687	1881	
		Malakavemula	8,480	419	8,500	..	8,500	68	387		
		Kondakomerla	3,700	188	3,700	..	3,700	16	204		
		Thummala	2,495	227	2,495	2,495			227	1881	
		Kokanti	2,000	162	2,000	..	2,000	22	184		
		Gorivikanama	18,000	195	18,000	..	18,000	14	209		Ordinary staff
	Madanapalle	Rekkalakonda	1,200	155	1,200	..	1,200	12	167		
		Mallayakonda	2,200	183	2,200	..	2,200	11	194		
		Kosuvaripalle	1,400	120	1,400	..	1,400	12	132		
		Scampalle	800	98	800		800	..	98		
		Horalcykonda	9,630	384	9,630	600	9,030	95	479	1881	Specially protected.
	Váyalpád	Yellutla	3 500	195	3,500	..	3,500	12	207		Ordinary staff
		Nadimcherla	2,000	188	2,000	..	2 000	13	201		
		Nurukuppalakonda	4,600	278	3,600	..	3,600	46	324		Specially protected.
		Ankalammakonda	2,000	267	2,000	..	2 000	44	311		
		Gorantlapalle	4,000	181	4,000	..	4,000	13	194		Ordinary staff
	Cuddapah	Mamillapalle	2,436	458	3,000	700	2,300	204	662		
	Cuddapah and Ráyachóti	Guvalacheruvu	7,600	351	7,600	7,000	600	240	591	1883	Specially protected
	Ráyachóti	Gadikota	12,000	500	12,480	8,480	4,000	185	685		
		Sibyala		..	3,500	..	3,500	10	10	1887	Ordinary staff
		Tsundupalle			3,000	..	3,000	5	5		
	Sidhout	Arapayakanama	2,000	379	10,000	7,500	2,500	119	498	1883	
		Kanamalapalle			4,435	3,325	1,110	191	191	1887	Specially protected
	Badvél	Kottakota	7,132	253	8,640	25	8,615	183	436	1885	
	Proddutur	Mudireddipalle	3,800	499	12,000	3,000	9,000	157	656	1883	
		Ramesvaram	91	28	91		91	1	29		
		Thalamapuram	153	33	153	..	153	1	34		
		Vellala	258	33	258	..	258	1	34		
		Alladupalle	197	32	197	..	197	1	33		
		Payadala	99	18	99	..	99	1	19		
		Nidjuvi	696	78	696		696	7	85		
		Kothapalle	120	18	120	..	120	1	19	1881	Ordinary staff
		Kalamalla	430	62	430	..	430	6	68		
		Modanathipalle	86	18	86	..	86		18		
		Ananthapuram	138	18	138	..	138	1	19		
		Kallur	160	17	160		160		17		
	Jammalamadugu	Kondasankesula	858	67	858	..	858	10	77		
		Gandikota	372	71	372	172	200	10	81		
		Kosnepalle	300	51	300	..	300	7	58		

Area of Forest tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.		Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Cuddapah—*cont.*	Jammalamadugu—*cont.*	Yamavaram	200	66	200	200	..	4	70	1881	Ordinary staff.
		Dhodiem	689	38	689	..	689	5	43		
		Murupandi	786	38	786	..	786	5	43		
		Malamedikambaladinne	787	62	787	..	787	5	67		
		Kódúr	579	60	579	..	579	5	65		
		Aravetipalle	200	22	200	..	200	6	28		
		Denepalle	350	18	350	..	350	7	25		
		Peddadudiala	300	24	300	..	300	6	30		
		Total ..	1,74,721	13,941	200,668	47,479	153,189	3,389	17,330		
Kurnool ..	Atmakúr	Atmakur-Velgode	14,500	2,480	14,500	..	14,500	..	2,480	1884	Ordinary staff.
		Total ..	14,500	2,480	14,500	..	14,500	..	2,480		
Bellary ..	Sandúr	Sandúr	2,750	963	2,750	..	2,750	130	1,093	1883	Specially protected.
		Hospet	1,050	712	1,050	1,050	..	50	762		
		Venkatagiri	1,150	285	1,150	300	850	54	339		
		Gound	5,050	397	5,050	2,050	3,000	239	636		
		Gurga	2,430	520	2,430	830	1,600	115	635		
		Kanavahalli	4,160	429	4,160	1,660	2,500	197	626		
		Dharmapúr	2,150	302	2,150	..	2,150	102	404		
		Basapúr	2,230	157	2,230	1,200	1,030	106	263	1885	
		Konapúr	1,960	167	1,960	1,600	360	93	260		
		Honsabatti	3,040	169	3,760	..	3,760	178	347		
		Kakbál	2,040	194	3,240	..	3,240	153	347		
		Joga	1,640	230	2,440	1,040	1,400	115	345		
		Madarhalli	..	187	2,380	..	2,380	113	300		
		Yethinahatty	..	..	2,443	..	2,443	116	116		
		Basapúr D.	..	..	419	..	419	20	20		
		Hosahalli	..	..	1,206	..	1,206	57	57	1886-87	
		Muthakalpeta	..	..	1,342	..	1,342	63	63		
		Appanahally	..	..	1,239	..	1,239	59	59		
		Obligundi	..	..	2,069	340	1,729	98	98		
		Lingathahally	..	..	486	..	486	23	23		
	Western Range ..	Shivpúr	9,000	117	9,000	..	9,000	295	412	1885	
		Sherbi	..	..	3,000	..	3,000	63	63	1886-87	
		Sunkadakal	..	..	7,000	..	7,000	13	13		
	Bellary	Malpangudi	700	200	700	..	700	87	287	1884	

Area of Forest Tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont*

District and Range		Forest Tract.	Area on 1st April 1886		During dry Season of 1886 87				Total cost up to 31st March 1887	Year when protection commenced	Remarks
			Area actually protected	Total cost	Area attempted to be protected	Fires	Area actually protected	Amount expended			
			ACS	RS	ACS	ACS	ACS	RS.	RS		
Bellary—*cont*	Kódligi and Hospet	Bandri ..			7,000		7,000	..		.	Ordinary staff
	Hospet	Gound	.	..	3,000		3 000	.		..	
		Hospet .			5,000		5,000	.			
		Jog ..	..		4 000		4,000		..		
		Thornagal ..		..	2 100	1 600	500				
		Oblagundi	.	..	1,000		1,000			..	
	Bellary . .	Bellari		..	8 000	7,000	1,000		..		
		Mincheri	.		4,000		4,000	.			
	Kódligi	Gollalinganahally . .			1,000		1,000		.		
		Tummurgudy .			2,500		2 500		.	..	
		Somalapúr . ..			1,000		1 000	..	.	..	
		Adóni, (west) ..	.		5,000	480	4,520	.	..	.	
		Do (east)									
		Ganekola			1,118		1,118	.	..	..	
		Badanahattv			792		792		..		
		Kowtalam . ..			681		681	..	..		
		Halikota .		.	486		486	..			
		Sulakeri .			1,342	.	1,342		..		
		Kupgal .	..		4,650	..	4,650	..	.		
	Adóni	Tungabhadra			4 633	..	4,633		.	..	
		Halvey ..	.	..	1,145	.	1 145		..		
		Kosgi	..	.	2,970	..	2 970	.			
		Nandavaram ..	.		971	.	971	..	.	.	
		Ráyachóti ..	.	..	1,863	..	1,863	.	.		
		Kurimetla .. .			3,341	..	3,341	..	..		
		Bemivasi			1,964		1 964		..		
		Kotakallu			2,569		2,569		..		
		Kudbur .. .			2,952		2 952				
	Hadgalli and Harpana halli	Harada	.		18,000	18,000					
		Sogy ..	.		4 200	4,200			..		
		Raidroog .	..	..	6,000	..	6 000				
		Dharmapuri . .	.	.	3,600	.	3 600		.		
		Aduguppa . ..			1,000		1 000				
		Total	39,350	5,029	171,531	41,350	130 181	2,539	7,568		
Anantapur	Penukonda	Kottakota	5,120	544	5,120	4,500	620	271	815	1884	Specially protected
	Muchukota .	Muchukota .	16,000	1,736	16,000	51	15,949	697	2 433		
	Hindupur	Amagondapolliam .	15 360	341	15,360	.	15 360	336	677		
		Dokulkonda .	2,880	29	2,880	.	2 880	4	33	1885	Fire patrols.
		Somarazmalai .	1,920	29	1,920		1,920	29	58		
	Penukonda ..	Narampalle		.	1 280		1,280	12	12	1886	Do
		Mallapakonda .	.		5,120	511	4,609	8	8		
		Total	41,280	2 679	47,680	5,062	42 618	1,357	4 036		

Area of Forest Tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.		Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Nilgiris ..	Mudumalai	Mudumalai plantation	101	956	101	..	101	* 1,081	2,037	1883	Specially protected.
		Benne do.									
		Northernhay	23	559	23	..	23	127	686		
		Moyar	..	..	13,238	..	13,238	58	58	1886	Ordinary staff and fire patrols
		Singara	..	..	1,970	..	1,970	34	34		
		Bockepuram	..	..	2,008	..	2,008	34	34		
		Kalhatti	..	..	5,005	..	5,005	34	34		
		Sigár	..	..	48,022	..	48,022	34	34		
	Ootacamûnd	Aramby	430	177	430	..	430	22	199	1883	Specially protected.
		Marliamund plantation	17	125	17	..	17	32	157		
		Governor's shola	1,341	459	670	..	670	92	551		
		Cairn hill	403	154	403	..	403	44	198		
		Pykara	844	75	844	..	844	27	102		
		Muthanad	457	171	457	..	457	40	211		
		Snowdon	987	64	1,053	..	1,053	11	75		
		Dodabetta	826	62	23	..	23	7	69		
		Elk hill	184	161	184	..	184	12	173		
		Lovedale, (east)	..	..	127	..	127	14	14	1886	Ordinary staff and fire patrols.
		Do. (west)	..	..	74	..	74	15	15		
		Ulnad	..	..	430	..	430	28	28		
		Dodabetta, Nos. I and II	..	..	773	..	773	7	7		
		Woodcock, Nos. I, II and III ..	..	..	24	..	24	7	7		
		Kotagiri trace, Nos. I and II ..	..	..	51	..	51	7	7		
		Yemmaikal	..	..	461	250	211	20	20		
		Sandynullah	..	..	818	..	818	14	14		
		Kengodu	..	..	415	..	415	14	14		
		Ebanád	..	..	571	..	571	29	29		
		Kadcoopa	..	..	1,622	..	1,622	14	14		
		Pichelbettu	..	..	1,668	..	1,668	14	14		
		Ithalár	..	..	242	..	242	14	14		
		Puthuhatty	..	..	27	..	27	14	14		
		Nergodumund	..	..	55	..	55	14	14		
		Jakuntha	..	..	370	..	370	14	14		
		Honnathalai	..	..	320	..	320	43	43		
	Coonoor	Kullár	803	61	803	..	803	138	199	1883	Specially protected.
		Aduthoré	760	46	760	..	760	62	108		
		Barliyár	126	61	126	..	126	25	86		
		Hulikal	2,280	176	2,280	..	2,280	73	249		
		Rallia	105	155	105	..	105	66	221		
		Lamb's rock	716	151	716	..	716	79	230		
		Commandu	993	61	993	..	993	54	115		

* Includes camping grounds.

Area of Forest Tracts protected from fire during the dry season of 1886-87, to accompany report for 1886-87—*cont.*

District and Range.		Forest Tract.	Area on 1st April 1886.		During dry season of 1886-87.				Total cost up to 31st March 1887.	Year when protection commenced.	Remarks.
			Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
			ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS		
Nílgiris—*cont.*	Coonoor	Tiger hill	317	53	317	..	317	24	77	1883	Specially protected.
		Ghát reserve	261	67	261	..	261	85	152		
		Coonoor peak	256	93	256	..	256	32	125		
		Hill grove	155	31	..	..	..	..	31		
		Benhope	46	48	46	..	46	25	73		
		Sim's park and Spring field ..	70	37	70	..	70	25	62		
		Bandy shola	111	37	111	..	111	18	55		
		Devashola, (north and south) ..	214	47	214	..	214	47	94		
		Bleak house	56	39	56	..	56	17	56		
		River reserve	53	47	53	..	53	37	84		
		Black bridge	391	83	391	..	391	34	117		
		Town shola	11	16	11	..	11	29	45		
		Brooklands	14	31	14	..	14	16	47		
		Jakanare	..	..	..	..	..	50	50	1886	Ordinary staff and fire patrols.
	Kotagiri	Longwood	262	252	262	..	262	67	319	1885	
		Kunnavara	..	..	100	..	100	48	48	1886	
		Kesalhada	..	..	156	..	156	41	41		
		Kerbetta	..	..	12	..	12	35	35		
		Nott shola	..	..	8	..	8	31	31		
	Naduvatam	Naduvatam sholas	..	65	..	..	..	56	121	1885	
		South-East Wynaad reserves ..	..	..	..	..	..	63	63	1886	
	Kundahs	Kundahs	..	85	40,521	..	40,521	97	182	1885	
		Thiashola			1,551	..	1,551				
		Mikkeru			1,267	..	1,267				
		Heriyashige			2,175	..	2,175				
	Melúr	Pembroke	..	..	122	..	122	46	46	1886	
		Thalakád	..	..	231	..	231	37	37		
		Total ..	13,613	4,705	136,484	250	136,234	3,428	8,133		
			ABSTRACT.								
	Total ..	Specially protected	302,698	24,294	313,224	53,657	259,567	10,216	34,510		
		Ordinary Staff	145,825	7,012	434,534	44,037	390,497	1,652	8,664		
		Grand Total ..	448,523	31,306	747,758	97,694	650,064	11,868	43,174		

Annual Form No. 63.

Forest Department, Madras, Northern Circle.

Prosecutions for breaches of forest rules during 1886-87.

District	Cases pending from 1885-86	New Cases of the year					Total cases	Disposed of during the year						Cases pending at close of year.
		Injury to forest by fire	Unauthorized felling or appropriation of wood and minor forest produce	Grazing without permission or in tracts in which grazing is prohibited	Other offences.	Total new cases of the year		Convictions		Acquittals		Total		
								Cases	Persons	Cases	Persons	Cases	Persons.	
Ganjam ..	14	..	196	..	.	196	210	125	387	67	280	192	667	18
Vizagapatam	1	..	63	.	8	71	72	49	110	15	30	64	140	8
Godávari ..	4	..	37	..	23	60	64	48	64	11	41	59	105	5
Kistna ..	2	1	122	2	37	162	164	118	210	20	95	138	305	26
Nellore ..	23	..	74	..	1	75	98	34	89	52	121	86	210	12
Cuddapah ..	9	8	112	22	9	151	160	101	280	48	139	149	428	11
Kurnool ..	4	..	90	..	..	90	94	63	162	28	53	91	215	3
Bellary .	6	1	42	10	7	60	66	30	71	32	124	62	195	4
Anantapur ..	3	5	72	17	4	98	101	66	171	23	89	89	260	12
Nílgiris .		2	25	..	4	31	31	23	61	4	19	27	80	4
Total ..	66	17	833	51	93	994	1,060	657	1,614	300	991	957	2,605	103
Cases compounded under section 55 of the Madras Forest Act														Amount for which these cases were compounded.
														Rs A. P.
Ganjam ..	..	..	..	..	6	6	6	6	9	..	..	6	9	36 2 0
Vizagapatam	..	..	22	..	..	22	22	22	22	.	..	22	22	139 14 0
Godávari ..	..	..	1	..	..	1	1	1	1	..	.	1	1	5 0 0
Kistna ..	.	3	116	..	10	129	129	129	..	..	..	.	..	402 6 0
Nellore ..	..	..	24	..	.	24	24	24	77	..	..	24	77	66 4 0
Cuddapah ..	..	..	34	5	5	44	44	44	120	..	..	44	120	150 0 0
Kurnool ..	..	..	1	..	..	1	1	1	1		..	1	1	5 0 0
Bellary ..	..	..	1	..	..	1	1	1	1	.	..	1	1	35 0 0
Anantapur ..	..	..	10	2	..	12	12	12	19	..	..	12	19	18 2 0
Nílgiris ..	..	..	..	..	.	..	..	..	.	..	..	.	..	..
Total ..		3	209	7	21	240	240	240	250	..		111	250	857 12 0

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1886-37.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nílgiris.	Total.
B.—"Establishments."	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. "Conservancy and Works"	2.251	20,425	1,148	8,390	10,416	38,289	39,936	19,628	16,589	9,618	53,753	2,20,443
I.—Salaries—												
(a) Conservators	13.998	..	..	..	..	..	..	..	..	..	..	13,998
(b) Superior officers	9,008	5,712	4,200	5,631	900	10,397	10,195	3,485	7,039	4,503	9,935	71,010
(c) Subordinate Forest and Depôt Establishments	1.206	4,014	1,747	3,964	7,856	6,230	11,830	5,691	3,822	3,204	6,687	56,281
(d) Office Establishments	11,161	2,061	549	1,134	1,714	1,705	2,572	1,367	877	891	1,789	25,820
(e) Deputation and Special Allowances.	..	..	..	..	..	..	..	..	..	..	..	..
II.—Travelling Allowances—												
(a) Conservators	3,303	..	..	..	..	..	..	..	..	..	..	3,303
(b) Superior officers	2,268	1,933	1,440	1,584	275	1,571	1,524	1,152	1,784	1,440	1,800	16,371
(c) Subordinate Forest and Depôt Establishments	597	1,185	433	1,507	2,142	1,383	3,228	1,264	472	561	1,613	14,386
(d) Office Establishments	1,543	517	261	268	325	343	479	241	127	205	121	4,430
III.—Contingencies—												
(a) Stationery	74	1	..	..	13	18	..	16	1	..	..	123
(b) Carriage of Tents and Records ..	433	8	45	124	172	146	84	125	39	89	..	1,265
(c) Rents, Rates and Taxes	966	..	..	180	74	300	134	..	160	11	360	2,185
(d) Pay of Police Guards	..	..	..	..	..	..	..	..	..	..	..	..
(e) Official Postage	465	132	34	160	323	251	333	226	105	120	107	2,266
(f) Sundries	1,390	363	11	123	125	316	59	76	49	287	286	3,085
Total B, "Establishments" ..	46,412	15,556	8,720	14,675	13,919	22,660	30,438	13,553	14,476	11,316	22,698	2,14,523
Grand Total of Expenditure ..	48,663	35,981	9,868	23,065	24,335	60,949	70,374	33,281	31,065	20,934	76,451	4,34,966

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department Madras, Northern Circle.

Summary of Revenue of the different districts, 1886-87.

Budget heads, Receipts.	Direction.	Ganjam	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah	Kurnool.	Bellary.	Anantapur	Nilgiris.	Total.
	RS.	RS.	RS.	RS.	RS.	RS	RS	R	RS.	RS.	RS.	RS.
I.—Timber and other produce removed from the forests by Government Agency—												
(a) Timber	..	2,314	14	52	..	394	34,955	..	365	12	6,642	45,248
(b) Firewood and charcoal	..	21	..	..	24	39,423	..	19,297	4,483	35	13,244	76,527
(c) Bamboos	..	..	..	..	..	..	..	..	932	..	..	932
(d) Sandalwood	..	..	..	..	..	..	..	..	..	..	9,000	9,000
(e) Grass and other minor produce ..	..	123	..	..	..	2,250	178	..	90	250	1,054	3,945
II.—Timber and other produce removed from the forests by consumers or purchasers—												
(a) Timber	..	384	461	23,343	12,389	6,337	18,982	42,738	1,105	948	1,925	1,09,112
(b) Firewood and charcoal .. .	..	12,344	2,398	6,215	8,052	4,816	60,465	17,589	3,259	2,068	5,702	1,12,908
(c) Bamboos	..	3,231	986	11,994	1,425	3	6,623	14,331	37	286	1,821	40,737
(d) Grazing and fodder grass	..	5	..	971	37,927	4,683	174	1,109	337	6	326	45,538
(e) Other minor produce	..	655	113	539	16,323	15,972	35,846	1,659	14,468	14,481	727	1,00,783
III.—Confiscated, drift and waifwood	..	196	4	3,110	256	134	307	486	21	32	8	4,554
IV.—Revenue from forests not managed by Government—												
V.—Miscellaneous—												
(a) Fines and forfeitures	..	..	28	..	..	..	28	..	..	..	..	56
(b) Refunds	38	41	71	39	21	37	319	38	8	31	12	529
(c) Other sources	31	13	290	5	550	862	506	259	72	78	213	2,379
Total Receipts ..	69	19,827	4,365	46,768	76,967	74,411	1,48,257	97,506	25,177	18,227	40,674	5,52,248

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Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1886-87.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godâvari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I.—Timber and other produce removed from the forests by Government Agency—												
(a) Timber	..	3,981	..	4	14	66	13,767	..	46	6	1,938	19,821
(b) Firewood and charcoal	..	191	..	..	26	27,082	..	11,568	679	2	14,107	53,655
(c) Bamboos	..	7	..	..	..	..	..	..	242	..	..	249
(d) Sandalwood	..	..	..	..	..	..	..	..	..	..	3,529	3,529
(e) Grass and other minor produce ..	..	354	..	..	1	1,983	1,629	163	50	250	847	5,277
II.—Timber and other produce removed from the forests by consumers or purchasers	..	2,757	817	4,503	1,875	250	5,365	5,234	..	229	1,204	22,284
III.—Confiscated, drift and waif wood	..	155	..	425	24	..	42	26	..	..	..	672
IV.—Revenue from forests not managed by Government	..	356	..	..	..	..	..	..	..	..	..	356
V.—Rent of leased forests, and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	10,000	..	3,500	13,500
VI.—Live stock, stores, tools and plant—												
(a) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(b) Feed and keep of cattle	..	..	..	..	..	..	..	..	..	..	1,483	1,483
(c) Stores, tools and plant	631	338	183	1,010	319	2,843	174	212	714	366	1,637	8,427
VII.—Communications and buildings—												
(a) Roads and bridges	..	4,091	..	228	..	..	1,907	..	152	617	4,224	11,219
(b) Buildings	..	3,425	..	85	70	140	2,331	822	6	4,727	2,855	14,461
(c) Other works	..	..	..	..	44	..	..	..	..	..	5	49
VIII.—Demarcation, improvement and extention of forests—												
(a) Demarcation	..	3,463	148	1,901	1,986	73	5,467	730	1,290	1,550	2,937	19,545
(b) Compensation for land and rights	..	226	..	..	..	..	1,694	558	376	..	100	2,954
(c) Surveys and working plans ..	17	215	..	..	22	..	..	..	..	..	546	800
(d) Plantations	1,178	97	..	84	4,563	5,330	2,690	230	238	345	9,135	23,890
(e) Protection from fire	..	269	..	..	852	264	3,464	5	2,417	1,433	3,429	12,133
(f) Other works	..	370	..	..	393	206	1,030	..	296	..	1,957	4,252
IX.—Miscellaneous—												
(a) Refunds	..	7	..	74	8	6	122	30	16	40	184	487
Law charges	..	18	..	..	..	47	10	..	..	15	128	218
Other charges	425	105	..	76	219	..	244	..	67	38	8	1,182
Total A.—Conservancy and Works ..	2,251	20,423	1,148	8,390	10,416	38,289	39,936	19,628	16,589	9,618	53,753	2,20,443

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Annual Form No. 65.

Forest Department, Madras, Northern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1886-87.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	
Conservator's office, Northern Circle ..	..	2,230 3 10	2,230 3 10	267 2 11	2,005 7 9	2,272 10 8	42 6 10	..	
Two-fifths of Examiner's office	..	1,678 12 1	1,678 12 1	30 15 3	1,648 3 4	1,679 2 7	0 6 6	..	
Forest Settlement-officer, Kurnool ..	..	800 0 0	800 0 0	..	800 0 0	800 0 0	..	..	
Do. Nilgiris	..	..	..	..	..	..	..	..	
Do. Nellore and Bellary.	..	..	..	..	20 0 0	20 0 0	20 0 0	..	
Ganjam	..	28,017 2 3	28,017 2 3	1,053 1 4	29,591 9 2	30,644 10 6	2,627 8 3	..	
Vizagapatam	..	3,058 12 2	3,058 12 2	390 6 4	3,067 11 7	3,458 1 11	399 5 9	..	
Godávari	..	12,072 7 6	12,072 7 6	729 8 1	12,301 6 4	13,030 14 5	958 6 11	..	
Kistna	..	18,653 8 10	18,653 8 10	919 14 11	19,579 11 0	20,499 9 11	1,846 1 1	..	
Nellore	17 6 7	44,563 9 8	44,581 0 3	2,777 6 11	46,700 7 3	49,477 14 2	4,896 13 11	..	
Cuddapah	..	41,240 6 5	41,240 6 5	902 6 0	40,903 0 4	41,805 6 4	574 1 9	9 1 10	
Kurnool	..	12,495 2 11	12,495 2 11	876 4 8	13,287 11 4	14,164 0 0	1,668 13 1	..	
Bellary	..	9,085 13 4	9,085 13 4	237 15 10	9,286 11 11	9,524 11 9	438 14 5	..	
Anantapur	..	8,341 10 3	8,341 10 3	121 7 7	8,370 0 0	8,491 4 7	149 10 4	..	
Nilgiris	..	21,141 13 6	21,141 13 6	1,097 4 11	20,745 10 7	21,842 15 6	701 2 0	..	
Forest school, Dehra Dún	..	1,406 10 4	1,406 10 4	..	1,469 10 4	1,469 10 4	63 0 0	..	
Total ..	17 6 7	2,04,786 1 1	2,04,803 7 8	9,403 11 9	2,09,777 4 11	2,19,181 0 8	14,386 10 10	9 1 10	

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Examiner of Forest Accounts.

Annual Form No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and outstandings on account of revenue during 1886-87

District.	Particulars	Outstandings at commencement of year	Value of sales and other revenue during year	Total.	Amount realized during year	Balance due to the department at end of year.	Remarks
		RS. A P	RS A P	RS A P	RS A P	RS A P	
Ganjam	Timber and other produce	1,914 14 7	17,912 9 11	19,827 8 6	19,826 12 11	0 11 7	
Vizagapatam	Do.	..	4,364 14 9	4,364 14 9	4,364 14 9	..	
Godavari	Do	..	46,768 13 2	46,768 13 2	46,768 13 2	..	
Kistna	Do	..	76,966 15 4	76,966 15 4	76,966 15 4	..	
Nellore	Do	901 12 0	77,825 7 0	78,727 3 0	* 75,139 7 2	3,587 11 10	* Includes Rs 728-8-0 written off the accounts as per G O, No 74, dated 21st January 1887, communicated in Board's Proceedings, No 75, dated 10th February 1887
Cuddapah	Do	16 0 0	1,48,256 15 0	1,48,272 15 0	† 1,48,272 15 0	..	† Includes Rs 16 written off in the accounts
Kurnool	Do	..	97,505 11 0	97,505 11 0	97,505 11 0	..	
Bellary	Do	2 4 0	25,177 13 10	25,180 1 10	25,177 13 6	2 4 4	
Anantapur	Do	..	18,226 5 2	18,226 5 2	18,226 5 2	..	
Nilgiris	Do	3,005 5 6	38,950 7 2	41,955 12 8	40,673 13 3	1,281 15 5	
Direction	Do	..	68 12 0	68 12 0	68 12 0	..	
	Total	5,840 4 1	5,52,024 12 4	5,57,865 0 5	5,52,992 5 3	4,872 11 2	

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Examiner of Forest Accounts,

Annual Form No. 67.

Forest Department, Northern Circle.

Financial results of the year 1886-87.

Districts.	Timber and other produce removed from the Forests by Government Agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam	2,958	21,354	16,876	8,318	11,064	19,834	40,736
Vizagapatam	14	..	4,357	5,951	5,580	4,371	11,531
Godávar	52	5,538	46,723	12,171	10,111	46,775	27,820
Kistna	24	204	76,950	11,178	17,708	76,974	29,980
Nellore	42,067	44,975	32,352	7,462	14,814	74,419	67,251
Cuddapah	35,133	24,027	1,13,131	20,057	32,803	1,48,264	77,787
Kurnool	19,297	19,378	78,216	11,924	8,281	97,513	39,583
Bellary	5,870	5,328	19,314	17,026	11,919	25,184	34,273
Anantapur	297	3,452	17,936	11,084	9,606	18,233	24,142
Nílgiris	29,940	40,702	10,741	8,325	33,726	40,681	82,753
Total ..	1,35,652	1,65,858	4,16,596	1,13,496	1,55,612	5,52,248	4,34,966

Annual Form No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1886-87.

(Selection Fellings.)

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Ganjam	Kukkúlubá range	Sál	103	121	224	Converted into logs	187	187	37	
		Sajo	..	41	41	Do. do.	36	36	5	
		Dhau	8	19	27	Do. do.	19	19	8	
		Ebony	..	4	4	Do. do.	4	4	..	
		Miscellaneous	..	33	33	Do. do.	18	18	15	
	Mojagodo	Sál	..	281	281	Do. do.	281	281	..	
		Sajo	..	19	19	Do. do.	19	19	..	
		Dhau	..	6	6	Do. do.	6	6	..	
		Miscellaneous	..	121	121	Do do.	121	121	..	
	Suradá	Satinwood	..	8	8	Do. do.	8	8	..	
		Total, Ganjam	111	653	764	....	699	699	65	
Godávari	Wuddagudiem range	Nallamaddi	112	3	115	....	..	..	115	
		Sombi	21	..	21	....	..	..	21	
		Chiriman	24	..	24	....	..	..	24	
		Ippa	25	1	26	....	..	..	26	
		Chimpangi	15	..	15	....	..	..	15	
		Bandaru	1	..	1	....	..	..	1	
		Konda Tangedu	2	180	182	....	..	..	182	
		Total, Godávari	200	184	384	....	..	..	384	
Kistna	Beswáda	Thumma	..	91	91	Converted into poles and fuel.	91	91	..	
		Total, Kistna	..	91	91	....	91	91	..	
Nellore	Kávali range, Tummalapenta plantation.	Casuarina	..	543	543	Converted into poles and fuel.	543	543	..	
	Udayagiri range	Miscellaneous	36	..	36	Do. sleepers	36	36	..	
		Total, Nellore	36	543	579	....	579	579	..	

Trees felled by Government Agency during the year 1886-87—*cont.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees. On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year. How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Cuddapah	Kodúr	Sandal	..	3	3	Sold	3	3	..	
		Red sander	..	177	177	Do.	177	177	..	
		Teak	..	10	10	Do.	10	10	..	
		Miscellaneous	..	308	308	Do.	308	308	..	
		Total, Cuddapah ..	..	498	498	....	498	498	..	
Anantapur ..	Khojjepalle reserve ..	Babul	..	246	246	Converted into 185 demarcation posts.	60	246	..	
						Sold by auction	185			
						Sent to exhibition	1			
		Palmyra	..	3	3	Sold by auction	3	3	..	
		Margosa	..	1	1	Sent to exhibition	1	1	..	
	Kottakota	Teak and billu	..	152	152	Converted into rafters ..	150	152	..	
						Exhibition	2			
		Yellama	..	1	1	....	1	1	..	
		Palmyra	..	5	5	Converted into beams ..	5	5	..	
	Muchukota	Yepi	..	73	73	Sold	70	73	..	
						Used departmentally for huts.	2			
						Sent to exhibition	1			
	Yellutla	Neem	..	2	2	Used departmentally for huts.	2	2	..	
		Babul	..	1	1	Exhibition	1	1	..	
		Total, Anantapur ..	..	484	484	....	484	484	..	
Nilgiris ..	Teppacadu block	Teak	..	137	137	Converted into logs	137	137	..	
		Do.	..	1,600	1,600	Do. poles ..	1,600	1,600	..	
		Blackwood	..	109	109	Do. logs and poles.	109	109	..	
		Vengai	..	222	222	Do. do. ..	222	222	..	
		Venteak	..	12	12	Do. do. ..	12	12	..	
		Mutti	..	40	40	Do. do. ..	40	40	..	
		Miscellaneous	..	2,070	2,070	Do. do. ..	2,070	2,070	..	
	Baikie reserve	Eucalyptus	..	3,970	2,970	Do. fuel ..	3,970	3,970	..	
	Aramby	Do.	..	2,519	2,519	Do. do. ..	2,519	2,519	..	
	Governor's shola	Do.	..	415	415	Do. do. ..	415	415	..	
	Cairn hill	Do.	..	1,763	1,763	Do. do. ..	1,763	1,763	..	
	Ulnad reserve	Do. and Acacia ..	..	527	527	Do. do. ..	527	527	..	
	Coonoor peak reserve ..	Do.	..	3,599	3,599	Do. do. ..	3,599	3,599	..	
	Bandy shola reserve	Acacia	..	221	221	Do. fuel & charcoal.	221	221	..	
		Total, Nilgiris ..	..	17,204	17,204	....	17,204	17,204	..	

Trees felled by Government Agency during the year 1886-87—*cont*

District	Range, Forest or Working Circle	Description of Trees	Number of Trees: On hand at commencement of the year	Felled during the year	Total	Disposed of during the year: How disposed of	Number	Total	Balance at end of the year	Remarks
	Abstract	Teak		1,899	1,899		1,899	1,899	..	
		Venteak		12	12	..	12	12		
		Sál	103	402	505	..	468	468	37	
		Sandalwood		3	3		3	3		
		Blackwood		109	109	..	109	109		
		Satinwood		8	8	..	8	8	..	
		Ebony	..	4	4		4	4		
		Red sanders	..	177	177	..	177	177		
		Ironwood	2	180	182		..	..	182	
		Margosa		3	3	....	3	3		
		Babul	..	338	338		338	338		
		Yegi		222	222		222	222	..	
		Yepi		73	73	..	73	73		
		Chiriman	32	55	87		25	25	32	
		Maddi	112	103	215		95	95	120	
		Palmyra		8	8		8	8		
		Eucalyptus	..	12,491	12 491		12,491	12,491		
		Acacia		523	523		523	523	..	
		Casuarina		543	543		543	543	..	
		Miscellaneous	98	2,534	2,632		2 554	2,554	78	
		Total	347	19,657	20,004	..	19,555	19,555	449	

ANNUAL FORM No. 69.

Forest Department, Madras, Northern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam.	Mojagodo ..	Sál logs ..	2,226	30,825	538	3,474	2,764	34,299	Taken to depôt.	375	1,681	2,233	30,858	
									Sold	156	1,760			
		Do. sleepers ..	..	..	257	341	257	341	Used departmentally	151	200	106	141	
		Blackwood logs.	..	..	2	13	2	13	Taken to depôt.	2	13	..	..	
		Ebony	..	..	2	12	2	12	Do. ..	2	12	..	..	
		Piasál	..	..	1	8	1	8	Do. ..	1	8	..	..	
		Sajo	..	..	30	213	30	213	Do. ..	29	189	..	..	
									Sold	1	24			
		Dhau	..	..	10	172	10	172	Taken to depôt.	9	133	..	..	
									Sold .. .	1	34			
		Miscellaneous ..	..	..	136	945	136	945	Taken to depôt.	136	945	..	..	
	Kukkúlubá.	Sál logs ..	159	3,941	627	4,346	786	8,287	Sold	163	2,262	370	2,412	
									Taken to depôt.	253	3,613			
		Piasál	1	11	14	158	15	169	Do. ..	14	158	1	11	
		Sajo	36	523	68	940	104	1,463	Do. ..	100	1,417	2	19	
									Less on measurement.	..	3			
									Sold	2	24			
		Dhau	43	724	42	515	85	1,239	Taken to depôt.	75	1,082	..	..	
									Sold	10	157			
		Ebony	..	..	4	24	4	24	Taken to depôt.	4	24	..	..	
		Miscellaneous ..	11	179	28	355	39	534	Do. ..	35	498	4	36	
	Suradá ..	Sajo	15	338	32	510	47	848	Taken to depôt.	25	437	22	411	
		Satinwood ..	..	..	8	89	8	89	Do. ..	8	89	..	..	
		Total, Timber ..	2,491	36,541	1,799	12,115	4,290	48,656	..	1,552	14,768	2,738	33,888	
	Do. ..	Fuel	..	..	Tons 514	25,700	Tons 514	25,700	..	..	..	Tons 514	25,700	
		Total, Fuel ..	..	..	Tons 514	25,700	Tons 514	25,700	..	..	..	Tons 514	25,700	
Vizagapatam.	Gólgonda ..	Miscellaneous ..	..	..	..	30	..	30	Sold	..	30	..	..	
		Total, Timber ..	..	..	..	30	..	30	..	..	30	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Godávari.	Rékapalle ..	Firewood ..	Tons 442	30,601	..	..	Tons 442	30,601	Washed by floods.	Tons 387	26,919	55	3,682	
		Total, Fuel ..	Tons 442	30,601	..	..	Tons 442	30,601	..	Tons 387	26,919	55	3,682	
	Godávari river.	Teak	..	..	822	5,117	822	5,117	Sold	822	5,117	..	..	Drift timber.
		Miscellaneous ..	..	..	703	6,005	703	6,005	Do.	703	6,005	..	..	
		Total, Timber ..	..	..	1,525	11,122	1,525	11,122	..	1,525	11,122	..	..	
Kistna.	Besváda ..	Tumma poles ..	..	..	135	270	135	270	Used departmentally.	37	75	81	161	Estimate 2 cubic feet each.
									Sold	17	34			
		Total, Timber ..	..	..	135	270	135	270	..	54	109	81	161	
	Besváda and Bapatla ..	Fuel	..	..	Tons 28	1,400	Tons 28	1,400	Taken to depôt.	Tons 7	350	Tons 18	900	
									Sold	" 3	150			
		Total, Fuel ..	..	..	Tons 28	1,400	Tons 28	1,400	..	Tons 10	500	Tons 18	900	
Nellore.	Srihárikota	Building poles ..	..	..	3,676	2,441	3,676	2,441	Used Departmentally ..	2,436	2,441	..	..	
		Stakes and pegs.	..	..	46,000	920	46,000	920	Madras depôt ..	1,240				
									Sold to Salt Department.	46,000	920	..	..	
		Mis. sticks ..	..	..	20,000	800	20,000	800	Used Departmentally.	20,000	800	..	..	
	Udáyagiri ..	Sleepers and posts.	339	565	..	..	339	565	Sold	339	565	..	..	
	Plantations N.	Casuarina poles.	..	..	644	737	644	737	Do.	644	737	..	..	
		Palmyra rafters, &c.	..	..	69	72	69	72	Do.	69	72	..	..	
		Total, Timber ..	339	565	70,389	4,970	70,728	5,535	..	70,728	5,535	..	..	
	Srihárikóta.	Junglewood ..	..	..	2,285,290	Ts. 2,812	2,285,290	Ts. 2,812	Madras depôt ..	2,285,290	Ts. 2,812	..	..	
		Do. bundle ..	..	..	31,073	1,243	31,073	1,243	Do. ..	31,073	1,243	..	..	
	Plantation S.	Casuarina ..	Tons 79	..	..	3,189	..	3,268	Do. ..	..	506	..	1,006	
									Sold	..	1,356			
	Do. N.	Do. ..	..	..	..	303	..	303	Do. ..	..	161	..	..	
									Madras depôt ..	..	142			
		Total, Fuel ..	Tons 79	3,950	..	Ts. 7,547 or 3,77,350	..	Ts. 7,626 or 3,81,300	...	..	Ts. 6,620 or 3,31,000	..	Ts. 1,006 or 50,300	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nellore—*cont.*	Srihárikót	Nux-vomica ..	..	..	Mds. 1,096	...	Mds. 1,096	..	Madras depôt ..	Mds. 790	..	Mds. 306	..	
		Cheyroot ..	Mds. 287	..	,, 374	..	,, 661	..	..	..	..	,, 661	..	
		Suratichakka ..	,, 93	..	..	..	,, 93	..	Madras depôt ..	,, 86	..	..	..	
									Dryage ..	,, 7				
		Soapnuts ..	..	..	,, 395	..	,, 395	..	Madras depôt ..	,, 395	..	..	..	
		Orchella ..	,, 10	..	,, 3	..	,, 13	..	Sold	,, 13	..	..	..	
		Honey ..	,, 2	..	,, ½	..	,, 2½	..	Do	,, 2½	..	..	..	
		Tangedu ..	,, 63	..	..	..	,, 63	..	..	..	..	Mds 63	..	
		Wax	..	..	,, ½	..	,, ½	..	Sold	,, ½	..	..	..	
		Tamarind ..	..	..	,, 201	..	,, 201	..	Do.	,, 201	..	..	..	
		Rattans ..	Bdls 65	..	Bdls. 145	..	Bdls. 210	..	Madras depôt ..	,, 210	..	..	..	10½ maunds estimate.
		Total, Minor produce ..	Mds. 488	..	Mds. 2,142	..	Mds. 2,620	..	..	Mds. 1,600	..	Mds. 1,030	..	
Cuddapah.	Kodúr ..	Red sander roots, &c.	..	..	Tons 1,897½	94,874	Ts. 18,97½	94,874	Taken to depôt.	Tons. 1,897½	94,874	..	..	
	Rájampet ..	Red sander posts, &c.	..	..	No. 726	726	,, 726	726	Do. ..	,, 726	726	..	..	
	Do. ..	Miscellaneous trees.	..	..	,, 2	2	,, 2	2	Do. ..	,, 2	2	..	..	
	Cuddapah ..	Palmyra trees ..	..	..	,, 49	98	,, 49	98	Sold	,, 49	98	..	..	
		Total, Timber ..	..	..	Tons 1,914	95,700	Ts. 1,914	95,700	..	Tons 1,914	95,700	..	..	
	All ranges ..	Gallnuts C. ..	..	..	Mds. 7,440	..	Mds. 7,440	..	Taken to depôt.	Mds. 2,289	..	Mds 5,151	..	
	Do. ..	Tangedu bark ..	..	..	,, 273	..	,, 273	..	Do. ..	,, 117	..	,, 156	..	
	Madanapalle	Mangoes ..	..	..	No. 936	..	No. 936	..	Do. ..	No. 936	..	..	..	75 fruits, per maund = 12 Mds.
		Pumplemose ..	..	..	,, 1,200	..	,, 1,200	..	Sold	,, 1,200	..	..	..	16 fruits, per maund = 75 Mds.
		Oranges ..	..	..	,, 600	..	,, 600	..	Do.	,, 600	..	..	..	75 fruits, per maund = 8 Mds.
		Total, Minor produce ...	..	..	Mds. 7,808	..	Mds. 7,808	..	..	Mds. 2,501	..	Mds 5,307	..	
Kurnool.	Nándyal ..	Firewood ..	..	..	..	2,50,677 or 5,013 Ts.	..	2,50,677 or 5,013 Ts.	Sold to Bellary-Kistna State Railway.	..	2,50,677 or 5,013 Ts.	..	..	
		Total, Fuel.	..	..	..	Ts. 5,013	..	Ts. 5,013	..	..	Ts. 5,013	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District	Forest range, Forest or working circle.	Description of Timber or Forest produce	On hand at commencement of year		Collected during year		Total.		Disposed of during year			Balance at end of year.		Remarks.
			Number	Cubic feet	Number	Cubic feet	Number	Cubic feet	How disposed of	Number.	Cubic feet	Number.	Cubic feet.	
Kurnool—*cont.*	Nandikotkur.	Gallnuts, B ..	Mds. 500	..	Mds 280	..	Mds 780	..	Taken to depôt.	Mds. 500	..	Mds. 280	..	B = Beleric
	Sirvél ..	Do B ..	,, 300	..	,, 190	..	,, 490	..	Do ..	,, 300	..	,, 190	..	
	Yelgode ..	Do. B ..	,, 230	..	..	..	,, 230	..	Do ..	,, 230	..	..	..	
	Nandyál ..	Do. B ..	,, 500	..	..	..	,, 500	..	Do .	,, 500		..	..	
		Total, Minor produce	Mds 1,530	..	Mds. 470	..	Mds 2,000	.	..	Mds 1,530	..	Mds. 470	..	
Bellary	Sandúr ..	Teak poles ..	4	12	194	595	198	607	Sold	194	595	4	12	
		Miscellaneous poles and posts.	..	..	32	32	32	32	Do	32	32	..	..	
		Rafters ..	..	..	1,392	348	1,392	348	Do	1,392	348	..	..	
		Total, Timber ..	4	12	1,618	975	1,622	987	..	1,618	975	4	12	
	Sandúr ..	Firewood ..	Tons 1,707	122,385	Tons 833	79,968	Ts. 2,540	202,353	Sold	2,533	2,01,933	..	..	
									Wastage . ..	7	420			
		Do Creepers	326	21,880	,, 256	24,576	,, 582	46,456	Sold	582	46,456	..	..	
		Do Brushwood.	..	..	,, 134	12,060	,, 134	12,060	Do ..	134	12,060	..	..	
		Do Casuarina	..	..	,, 10	500	,, 10	500	Do. ..	10	500	..	..	
		Charcoal ...	..	..	Mds. 11	..	Mds 11	..	Do	Mds 2	..	Mds 9	..	
		Total, Fuel ..	2,033	144,265	1,233	117,104	3,266	261,369	..	Tons 3,266	261,369	Mds: 9	..	
	Sandúr ..	Bamboos ..	..	..	33,725	33,725	33,725	33,725	Sold	33,725	33,725	..	..	
		Total, Bamboos	..	..	33,725	33,725	33,725	33,725	..	33,725	33,725		..	
	Sandúr ..	Gallnuts C ..		..	Mds 177	..	Mds 177	..	Sold	Mds. 154	.	Mds 23	.	C = Chebulic
		Tamarind ..	Mds 43	..	..	..	,, 43	..	.	..	..	,, 43	..	
		Sheakoy ..	,, 6	..	..	..	,, 6	..	Sold ..	,, 1½	..	..	..	
									Wastage .	,, 4½				
		Kamila ..	lbs 5	..	lbs. 20	..	lbs 25	..	..	..	..	lbs 25	..	
		Honey ..	Bottles 10	..	..	..	Bottles 10	..	Sold	Bottles 7	..	Bottles. 3	..	16 bottles = 1 maund estimate
		Wax .	lbs 2	..	..	..	lbs 2		..	..	..	lbs 2	..	
		Tangedu bark..	..	..	Mds. 23	..	Mds. 23	..	Sold	Mds. 23	..	..	..	
		Gum ..	..	..	Seers. 16	..	Seers 16	..	..	..	..	Seers 16	..	½ maund estimate.
		Jack fruits ..	..	..	No. 50	..	No. 50	..	Sold	No. 50	..	..	..	½ maund each.
		Total, Minor produce	Mds 50	..	Mds 226½	..	Mds 276½	..	..	Mds 208½	..	Mds 67½	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle	Description of Timber or Forest produce	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Anantapur.	Penukonda	Teak rafters ..	..	..	150	150	150	150	..	..	..	150	150	
		Palmyra beams.	..	..	5	10	5	10	..	..	..	5	10	
	Hindúpur ..	Miscellaneous timber.	..	..	..	325	..	325	Sold	..	75	..	250	
	Gooty ..	Miscellaneous posts.	..	..	186	93	186	93	Do. ..	6	3	..	..	
									Used departmentally.	180	90			
		Total, Timber..	..	..	341	578	341	578	..	186	168	155	410	
	All ranges	Miscellaneous firewood.	..	..	Tons 182	9,100	Tons 182	9,100	Sold	Tons 133	6,650	...	..	
									Used departmentally.	,, 49	2,450			
		Total, Fuel ..	..	..	Tons 182	9,100	Tons 182	9,100	...	Tons 182	9,100	..	..	
	All ranges.	Honey ..	..	..	Mds. 26	..	Mds. 26	..	Taken to depôt.	Mds. 22	..	Mds. 2	..	
									Sold	,, 2	..			
		Wax	..	..	,, 1½	..	,, 1½	..	Taken to depôt.	,, 1¼	..	..	..	
									Sent to Gooty exhibition:	,, ¼	..			
		Gallnuts C ..	..	..	,, 311	...	,, 311	..	Taken to depôt.	,, 150	..	,, 20	..	
									Dryage ..	,, 141				
		Kanuga seeds ..	..	..	,, 13¼	..	,, 13¼	..	Sold	,, 7¾	..	,, 3¼	..	
									Taken to depôt.	,, 2½				
	Hindúpur ..	Sara seeds ..	..	..	,, 2	..	,, 2	..	Sold	,, 2	..	..	..	
		Tamarind ..	..	..	,, 30	..	,, 30	..	Do. ..	,, 30	..	..	..	
	Penukonda ..	Teak seeds ..	..	..	,, 2½	..	,, 2½	..	Taken to depôt.	,, 2½	..	..	..	
	Muchukota ..	Mango fruits ..	..	..	No. 300	Mds. 4	No. 300	No. 4	Sold	No. 300	Mds. 4	..	..	75 per maund estimate.
	Gooty ..	Babul pods ..	..	..	Mds. 1,389	..	Mds. 1,389	..	Taken to depôt.	Mds. 1,389	..	..	..	
									Do. ..	,, 1	..			
		Gum	..	..	,, 17½	..	,, 17½	..	Sent to Gooty exhibition.	,, 1½	..	15	..	
									Dryage ..	,, ½	..			
		Total, Minor produce	..	..	Mds. 1,796½	..	Mds. 1,796½	..	..	Mds. 1,756½	..	Mds. 40¼	..	
Nilgiris.	Bennes ..	Teak	43	1,650	..	..	43	1,650	Sold	3	98	40	1,552	
		Blackwood ..	3	230	..	..	3	230	Do.	..	..	3	230	
	Teppakádu	Teak	1	13	137	5,404	138	5,417	Do.	93	3,650	45	1,767	
		Do. poles ..	..	..	..	2,209	..	2,209	Do.	..	150	..	2,059	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Teppakádu—*cont*	Teak pieces ..	..	..	..	1,805	..	1,805	Sold	..	600	..	1,205	
		Venteak ..	..	..	12	396	12	396	Do. ..	12	396	..	..	
		Blackwood ..	..	..	200	760	200	760	Do. ..	18	291	182	469	
		Vengai ..	8	500	247	2,427	255	2,927	Do. ..	88	2,427	167	500	
		Mutti	35	1,183	99	46	134	1,229	Do. ..	131	1,145	3	84	
		Miscellaneous ..	..	..	3,350	990	3,350	990	Do. ..	3,350	990	..	..	
	Bandy shola	Acacia planks ..	..	..	737	6,215	737	6,215	Used departmentally.	219	1,656	89	887	
									Coonoor depôt ..	429	3,672			
		Do. rafters ..	..	..	361	361	361	361	Do. ..	234	234	65	65	
									Used departmentally.	62	62			
	Kullár ..	Drag poles ..	..	..	1,031	1,031	1,031	1,031	Taken to depôt.	744	744	287	287	
		Total, Timber ..	90	3,576	6,174	21,644	6,264	25,220	..	5,383	16,115	881	9,105	
	Governor's shola	Eucalyptus ..	Tons 259	12,950	Tons 1,421	71,050	Ts. 1,680	84,000	Sold	Tons 201	41,500	Tons 850	42,500	
									Ootacamund depôt.	,, 571				
									Dryage ..	,, 58				
	Cairn hill ..	Do. ..	,, 11	550	569	28,450	,, 580	29,000	Sold	,, 85	4,850	,, 483	24,150	
									Taken to Ootacamund depôt.	,, 3				
									Dryage ..	,, 9				
		Sholawood ..	,, 62	3,100	,, 186	9,300	,, 248	12,400	Sold	,, 79	6,200	,, 124	6,200	
									Taken to Ootacamund depôt.	,, 31				
									Dryage ..	,, 14				
	Aramby ..	Eucalyptus ..	..	..	,, 1,020	51,000	,, 1,020	51,000	Sold	,, 332	32,300	,, 374	18,700	
									Taken to Ootacamund depôt.	,, 313				
									Dryage ..	,, 1				
		Sholawood ..	,, 39	1,950	,, 210	10,500	,, 249	12,450	Sold	,, 164	9,250	,, 64	3,200	
									Dryage ..	,, 21				
	Woodcock ..	Do. ..	,, 68	3,400	..	..	,, 68	3,400	Ootacamund depôt.	,, 38	3,400	..	..	
									Dryage ..	,, 30				
	Pykara ..	Do. ..	,, 20	1,000	,, 7	350	,, 27	1,350	Sold	,, 27	1,350	..	..	
	Lovedale (east)	Do. ..	..	..	,, 13	650	,, 13	650	..	,, 13	650	..	..	
	Ulnad reserve.	Eucalyptus ..	..	..	,, 225	11,250	,, 225	11,250	..	,, 23	1,150	,, 202	10,100	
	Coonoor peak	Do. ..	,, 417	20,850	,, 2,318	1,15,900	,, 2,735	136,750	Coonoor depôt.	,, 130	68,750	,, 1,360	68,000	
									Wellington ,, ..	,, 605				
									Sold	,, 600				
									Charcoal kiln ..	,, 40				
		Sholawood ..	..	..	,, 26	1,300	,, 26	1,300	Sold	,, 26	1,300	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Ghát reserve.	Shola wood ..	..	..	Tons 56	2,800	Tons 56	2,800	Sold	Tons 38	2,500	Tons. 6	300	
									Wellington depôt	,, 12				
									Do. ..	,, 38				
	Bandy shola.	Do. ..	Tons 2	100	,, 204	10,200	,, 206	10,300	Sold	,, 7	9,300	,, 20	1,000	
									Charcoal kiln ..	,, 91				
									Sold	,, 1½	187	,, 5	250	
									Supplied to Public Works Department.	,, ½				
		Charcoal ..	..	..	,, 8¾	437	,, 8¾	437	Cotacamund depôt.	,, 2				
	Brooklands ..	Sholawood ..	..	..	,, 41	2,050	,, 41	2,050	Coonoor ..	,, 25	2,050	..	..	
									Sold	,, 16				
	Hulical ..	Do. ..	..	..	,, 23	1,150	,, 23	1,150	..	,, 23	1,150	..	..	
	Kullár ..	Miscellaneous firewood.	,, 148	7,400	,, 190	9,500	,, 338	16,900	Sold	,, 150	7,500	,, 188	9,400	
		Total, Fuel ..	Tons 1,026	51,300	Tons 6,517¾	3,25,887	Tons 7,543¾	3,77,187	..	Tons 3,867¾	1,93,387	Tons 3,676	1,83,800	
	Sigúr ..	Sandal wood, roots and chips.	Mds. 125	75	Mds. 2,000	1,100	Mds. 2,125	1,175	Sold	Mds. 2,000	1,100	Mds. 125	75	
		Total, Sandal-wood.	Mds. 125	75	Mds. 2,000	1,100	Mds. 2,125	1,175	Sold	Mds. 2,000	1,100	Mds. 125	75	
	Sigúr ..	Gallnuts, C ..	..	..	Mds. 1,870	..	Mds. 1,870	..	Sold	Mds 1,870	..	..	..	
		Sheakoy ..	..	..	,, 39	..	,, 39	..	..	,, 39	..	..	..	
		Honey	Bottles 5½	..	Bottles 807	..	Btls. 812½	..	Sold	Bottles 32	..	Bottles 774	..	12 bottles = maund estimate.
									Wastage ..	,, 5½				
		Wax	..	..	Mds. 3	..	Mds. 3	..	Sold	Mds. 3	..	..	..	
		Coffee	..	..	,, 9	..	,, 9	..	..	,, 9	..	..	..	
		Total, Minor produce.	Bottles 5½	..	Mds. 1,988	..	Mds. 1,988½	..	..	Mds. 1,924	..	Mds. 64½	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1886-87—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
		Abstract.												
		Sál logs and sleepers.	2,385	34,766	1,422	8,161	3,807	42,927	..	1,098	9,516	2,709	33,411	
		Teak logs, poles and rafters.	48	1,675	1,303	15,280	1,351	16,955	..	1,112	10,210	239	6.745	
		Red sander roots and posts, &c.	..	..	Tons 1,914	95,600	Ts. 1,914	95,600	..	Tons 1,914	95,600	..	..	
		Sandalwood roots and chips.	Mds. 125	75	Mds. 2,000	1,100	Mds 2,125	1,175	..	Mds. 2,000	1,100	Mds. 125	75	
		Sleepers, posts, &c.	339	565	..	..	339	565	..	339	565	..	..	
		Miscellaneous wood, logs, poles, &c.	152	3,688	79,307	28,363	79,459	32,051	..	78,548	28,631	911	3,420	
		Fuel and charcoal.	3,580	230,116	21,034¼	1,107,218	24,614¼	1,337,334	..	19,345¼	1,072,952	5,269	264.382 C. ft. Mds. 9	
		Bamboos ..	..	..	33,725	33,725	33,725	33,725	..	33,725	33,725	..	..	
		Nux vomica ..	..	..	Mds. 1,096	..	Mds 1,096	..	..	Mds. 790	..	Mds. 306	..	
		Chayroot ..	Mds. 287	..	,, 374	..	,, 661	..	..	..	..	,, 661	..	
		Suratichekka ..	,, 93	..	..	..	,, 93	..	..	Mds. 93	..	..	..	
		Soapnuts ..	..	..	Mds. 395	..	,, 395	..	..	,, 395	..	..	..	
		Orchella ..	Mds. 10	..	,, 3	..	,, 13	..	..	,, 13	..	..	..	
		Tangedu ..	,, 63	..	,, 296	..	,, 359	..	..	,, 140	..	Mds. 219	..	
		Honey ..	,, 3	..	,, 93½	..	,, 96½	..	..	,, 29½	..	,, 66	..	
		Wax	lb. 2	..	,, 5	..	,, 5	..	..	Mds. 5	..	lb. 2	..	
		Gallnuts .. B.	Mds. 1,530	..	,, 470	..	Mds 2,000	..	..	,, 1,530	..	Mds. 470	..	
		Gallnuts .. C.	..	..	,, 9,798	..	,, 9,798	..	..	,, 4,604	..	,, 5,194	..	
		Tamarind ..	Mds. 43	..	,, 231	..	,, 274	..	..	,, 231	..	,, 43	..	
		Sheakoy ..	,, 6	..	,, 39	..	,, 45	..	..	,, 45	..	..	..	
		Babul pods ..	..	..	,, 1,389	..	,, 1,389	..	..	,, 1,389	..	..	..	
		Rattans ..	Bdles. 65	..	Bdles. 145	..	Bds. 210	..	..	Bdles. 210	..	..	..	
		Gum	..	..	Mds. 18	..	Mds. 18	..	..	Mds. 2½	..	Mds. 15½	..	
		Kamila ..	lb. 5	..	lb. 20	..	lb. 25	..	..	..	..	lb. 25	..	
		Kanuga seeds ..	..	..	Mds. 13¼	..	Mds. 13¼	..	..	Mds. 10	..	Mds. 3¼	..	
		Sara do. ..	..	..	,, 2	..	,, 2	..	..	,, 2	..	..	..	
		Teak do. ..	..	..	,, 2½	..	,, 2½	..	..	,, 2½	..	..	..	
		Coffee do. ..	..	..	,, 9	..	,, 9	..	..	,, 9	..	..	..	
		Fruits ..	..	..	No. 3,086	..	No 3,086	..	..	No. 3,086	..	..	..	

Annual Form No. 70.

Forest Department, Madras, Northern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87.

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam	..	Russell-konda.	Sál logs ..	3	7	Forests ..	628	7,389	631	7,396	Sold	3	7	260	2,752	490 Sleepers.
											Used departmentally.	133	1,041			
											Cut sleepers ..	219	3,295			
											Loss on remeasurement.	..	10			
											Gopálpur depôt ..	9	240			
											Kariguda ..	7	51			
			,, b.g. sleepers.	..	..	Conversion ..	490	..	490	..	..	..	..	490	..	
			Demarcation posts.	..	..	..	620	..	2,440	..	Used departmentally.	402	..	2,038	..	
			..	..	..	Bought ..	1,820									
			Sál rafters ..	..	..	Conversion ..	8	13	8	13	Do. ..	8	13	..	..	
			Sajo logs ..	4	35	Forests ..	129	1,606	133	1,645	Sold	4	35	36	1,010	
						Remeasurement.	..	4			Cut rafters ..	43	597			
											Loss on remeasurement.	..	3			
			Sajo-rafters ..	..	..	Conversion ..	136	99	136	99	Gopálpur depôt ..	4	13	..	..	
											Used departmentally.	100	50			
											Kariguda ..	32	36			
			,, planks ...	..	..	Do. ..	38	143	42	158	Tilsingi	36	135	2	8	
						Found in excess.	4	15			Gopálpur ..	4	15			
			Dhau logs ..	..	..	Forests ..	84	1,220	84	1,221	Cut rafters ..	19	296	65	925	
						Remeasurement.	..	1								
			Dhau rafters ..	..	..	Conversion ..	45	170	45	170	Gopálpur depôt ..	4	13	..	..	
											Used departmentally.	24	78			
											Kariguda ..	17	79			
			,, planks ..	..	..	Do. ..	6	23	6	23	Gopálpur depôt ..	4	15	2	8	
			Ebony	..	..	Mojjagodo ..	2	12	2	12	..	..	..	2	12	
			Blackwood ..	4	48	..	2	13	6	61	Sold	4	48	2	13	
			Satinwood ..	..	..	Forests ..	8	89	8	89	Cut rafters ..	6	70	2	19	
			,, rafters.	..	..	Conversion ..	4	13	4	13	Gopálpur depôt ..	4	13	..	..	
			,, planks.	..	..	..	6	23	6	23	..	4	15	2	8	
			Piasál	1	4	Kúkkuluba ..	15	166	16	170	Sold	1	4	5	44	
											Used departmentally.	10	122			

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam—*cont.*	..	Russellkonda—*cont*	Piasál rafters	..	..	Conversion ..	23	..	23	..	Used departmentally.	19	..	4	..	
			,, planks ..	..	..	..	75	..	75	..	Do. ..	75	..	..	..	
			Cotton tree ..	1	26	..	..	..	1	26	Sold	1	26	..	..	
			Miscellaneous trees.	2	10	Forests ..	171	1,443	174	1,459	Do.	1	3	42	306	
						Found in depôt.	1	6			Cut planks ..	81	918			
											Used departmentally.	48	225			
											Loss on remeasurement.	2	7			
			Miscellaneous planks.	..	..	Conversion ..	826	..	826	..	Chandragiri ..	96	..	31	..	Holonda.
											Kariguda ..	100	..			
											Tilsingi	286	..			
											Bedigula	317	..			
											Used departmentally.	2	..			
			Do. ..		..		18	..	18	..	Tilsingi	18	..	..	..	Sohan.
			Slabs, sides, &c	52	..	..	2,075	..	2,127	..	Used departmentally.	439	..	1,687	..	
											Cut posts	1				
			Total ..	67	130	..	7,234	12,448	7,301	12,578	.	2,581	7,473	4,720	5,105	
		Suradá ..	Sál logs ..	..	..	Forests ..	7	111	7	111	Sold	2	32	5	79	
			,, b.g. sleepers	2	7	..	..	..	2	7	..	..	..	2	7	
			Blackwood logs.	2	15	..	..	..	2	15	..	..	..	2	15	
			Ebony	..	..	..	4	24	4	24	Sold	1	4	3	20	
			Sajo	26	484	Forests ..	25	437	51	921	..	4	63	47	858	
			Miscellaneous logs.	2	12	..	..	..	2	12	Cut	2	12	..	..	
			Total ..	32	518	..	36	572	68	1,090	..	9	111	59	979	
		Berhampore.	Sál logs ..	2	24	..	..	..	2	24	..	..	..	2	24	
			Total ..	2	24	..	..	..	2	24	..	..	..	2	24	
		Gopálpur	Sál logs ..	..	..	Russellkonda.	9	240	9	240	Sent to Madras and Bezváda for Public Works Department for experiment.	9	240	..	..	
			Sajo planks ..	..	..	..	4	15	4	15		4	15	..	..	
			,, rafters ..	..	..	..	4	13	4	13		4	13	..	..	
			Dhau planks ..	..	..	..	4	15	4	15		4	16	..	..	
			,, rafters ..	..	..	..	4	13	4	13		4	13	..	..	
			Satin planks ..	..	..	..	4	15	4	15		4	15	..	..	
			,, rafters ..	..	..	..	4	13	4	13		4	13	..	..	
			Total ..	..	..	..	33	324	33	324	..	33	324	..	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont*

District	Range	Name of Depot	Description of Timber and other Produce	On hand, 1st April 1887		Received during the year			Total		Disposed of during the year			Balance on 31st March 1887		Remarks
				Number or Quantity	Cubic feet	Whence received	Number or Quantity	Cubic feet	Number or Quantity	Cubic feet	How disposed of	Number or Quantity	Cubic feet	Number or Quantity	Cubic feet	
Ganjam —*cont*	..	Madras ..	Sál logs	4	71	Remeasurement.		58	4	129	Sold	4	129			
			Dhau logs	8	176	.	.	.	8	176				8	176	
			Sajo logs	8	151	..	..		8	151	.	.	..	8	151	
			Satinwood logs	6	86	..			6	86	..	.	.	6	86	
			Total	26	484	.		58	26	542	.	4	129	22	413	
		Chandragiri	Holondo planks		..	Russellkonda	376	.	376			..	.	376		
			Sajo planks	.	.		32		32	.	Used departmentally	32		.	.	
			Sohon planks	.			18	.	18	.		18	.	.		
			Total	..	.		426		426			50	.	376		
		Bedigula	Holondo planks		.	Russellkonda	317		317		.			317		
			Total	..	..	.	317		317		..		.	317		
		Kariguda	Sál logs			Russellkonda	7	51	7	51		..	.	7	51	
			,, poles				19	47	19	47		..	..	19	47	
			Sajo rafters	..	..		32	36	32	36				32	36	
			Dhau ,,				17	79	17	79				17	79	
			Holondo planks				100		100	.			.	100	.	
			Total	.			175	213	175	213				175	213	
		Russellkonda	Fuel (chips, &c)	..		Conversion	Tons 50	2,500	Tons. 50	2,500	Sold	Tons 36	1,800	Tons 14	700	
			Total, Fuel	..			Tons. 50	2,500	Tons 50	2,500	.	Tons. 36	1,800	Tons 14	700	
		Russellkonda	Bamboos ..	..		..	1,200	.	1,200		Sold ..	1,200	..	.		
			Total, Bamboos	..			1,200	.	1,200			1,200		.		
		Russelkondah	Babuli ..	.	.	Forests ..	Bds15,000		Bds1,5000		Used departmentally	12,000		.	..	Each bundle ½ maund estimate
											Sold .. .	3,000				
			Nux-vomica ..	..	.	Do .	Bags 39½	..	Bags 39½	..	Sold	Bags 34		.	.	
											Wastage .	,, 5½				

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Russell-konda —*cont.*	Gallnuts C. ..	..	..	Forests ..	lb. 2,700	..	lb. 2,700	..	Spoiled	lbs. 2,700	..	..	..	Terminalia chebula.
			Gills nuts ..	..	..	Do. ..	,, 3,900	..	,, 3,900	..	Gopálpur ..	,, 1,000	..	..	..	
											Sold	,, 2,560	..			
											Wastage	,, 340	..			
			Chono grass ..	..	..	Do. ..	Bs. 18,000	..	Bds. 18,000	..	Used departmentally.	Bs. 18,000	..	..	..	Each maund estimate.
			Babuli	..	..	Do. ..	,, 26,900	..	,, 26,900	..	Gopálpur ..	,, 26,900	..	..	..	
		Suradá ..	Gallnuts C. ..	..	..	Do. ..	lb. 10,800	..	lb. 10,800	..	Sold	lb. 9,180	..	lb. 1,420	..	
											Spoiled	,, 200				
			Nux vomica ..	..	..	Do. ..	,, 2,352	..	,, 2,352	..	Sold	,, 1,488	..	,, 864	..	
			Terminalia belerica.	..	..	Do. ..	,, 100	..	,, 100	..	Spoiled	,, 10	..	,, 90	..	
			Gillo nuts ..	..	..	Do. ..	,, 20,160	..	,, 20,160	..	Taken to Gopálpur.	,, 1,440	..	,, 18,720	..	
			Soymida gum ..	..	..	Do. ..	,, 30	..	,, 30	..	..	..	..	,, 30	..	
		Gopálpur.	Babuli	..	..	Suradá ..	Bs. 26,900	..	Bds. 26,900	..	Spoiled	Bs. 26,900	..	..	..	
			Gillo nuts ..	..	..	..	lbs. 1,440	..	lbs. 1,440	..	..	..	..	lbs. 1,440	..	
			Total, Minor produce.	..	..	..	Ms. 45,138	..	Mds. 45,138	..	..	Ms. 44,235	..	Mds. 903	..	
Kistna..	Bezvá-da.	Bezvada ..	Firewood ..	..	..	Forests ..	Tons 7	350	Tons 7	350	Sold	Tons 7	350	..	..	
			Total, Fuel ..	..	..	..	Tons 7	350	,, 7	350	..	,, 7	350	..	..	
Nellore.	..	Madras ..	Narudu poles ..	830	841	Sríharikót ..	..	..	830	841	Used departmentally.	81	81	120	120	
											Sold ..	629	640			
			Building do. ..	..	..	Do. ..	1,240	2,697	4,093	2,697	Used departmentally.	4,093	2,697	..	..	
						Excess found in stock.	2,853									
			Casuarina pole	1	2	..	..	..	1	2	..	..	..	1	2	
			Total, Timber..	831	843	..	4,093	2,697	4,924	3,540	..	4,803	3,418	121	122	
			Junglewood ..	46,844	Tons 45	Sríharikót ..	2,285,290	Tons 2,812	2,335,409	Ts. 2,857	Sold	1,302,670	Ts. 1,445	1,023,850	Tons 1,430	
						Excess found in stock.	3,275	,, 25			Lost in cyclone ..	8,889	7			
			,, bundles ..	9,663	,, 377	Sríharikót ..	31,073	,, 1,243	40,736	,, 1,620	Sold	31,828	,, 1,240	Bds. 8,907	Tons. 380	
											Lost in cyclone ..	Bds. 1				
			Casuarina ..	..	,, 227	Plantations ..	..	,, 1,048	..	,, 1,288	Sold	..	,, 1,245	..	..	
						Found in excess.	..	,, 13			Lost in cyclone ..	..	,, 43	..		
			Total, Fuel ..	56,507	Tons 649	..	2,319,638	Tons 5,141	2,376,145	Ts. 5,790	..	1,343,388	3,980	1,032,757	1,810	

Receipts and Issues of Timber and other Produce in Sale Depôts, during the year 1886-87—*cont.*

District	Range	Name of Depôt	Description of Timber and other Produce	On hand, 1st April 1887		Received during the year			Total.		Disposed of during the year.			Balance on 31st March 1887		Remarks
				Number or Quantity	Cubic feet	Whence received.	Number or Quantity	Cubic feet	Number or Quantity	Cubic feet	How disposed of	Number or Quantity	Cubic feet	Number or Quantity	Cubic feet	
Nellore—*cont*	..	Madras—*cont*	Nux vomica ..	..	..	Sriharikót ..	Mds. 790	..	Mds. 790	..	Shipped to London	Mds 790	..	.	..	
			Cheyroot ..	Mds 220	..	..	..	..	220	..	Sold .. .	219	..		..	
			Suratichekka ..	..	..	..	86	..	86	..	Wastage . .	1				
			Soapnuts ..	.	..	.	395	..			Do	4		Mds. 82	..	
						Excess found in stock	25		420	.	Sold	420	..	..	..	
			Rattans ..	Bds 21	..	.	Bds 210	..	Bds 231	..	Do.	Bds 210	..	Bds 21	..	1 bundle = ½ maund estimate.
			Total ..	Mds 230½	..		Mds.1,401		Mds 1,631½	..	.	Mds 1539	..	Mds 92½	..	
Cuddapah	..	Kodur ..	Red sander roots	..	..	Forest .	Tons 960	94,862	Ts 960	9 5012	Sold .. .	Tons 960		..	..	
		Orampad ..	Do do ..	Tons 3	150	..	797		800		..	„ 800	..	..	..	
		Peddapad	Do. do ..	..	..	..	140½		140½		..	„ 140	..	Ton ½		
		Rájampet .	Do posts ..	..	..	..	726	726	726	726	.	„ 690	..	.		
		..	Miscellaneous ..	..	..	..	2	2	2	2	Used departmentally ..	„ 36		..		
												2	2	..		
			Total, Timber ..	3	150	..	Tons1,912½	94,877	1,915½	95,027	..	Tons1,915	95,015	½	12	
		Cuddapah .	Gallnuts C. ..	..	..	Forest	Mds.2,289	..	Mds 2,289	..	Sold ..	Mds 37	.	Mds.2,252		75 fruits = 1 maund, estimate
		Madanapalli.	Mangoes ..		..	Horsleykonda	936	.	936	..		936	.	.	..	
		Kodur ..	Honey . ..	Md 1	.	..	..	..	Md 1	..	Destroyed being worthless.	Mds 2	.	..	..	
			Wax . ..	„ 1	..	.	..	..	„ 1	..						
		Váyalpád	Tangedu ..	..	..	Forest .	117	..	Mds 117	..						
			..	..	..	Excess found in stock	80	..	80	..	Sold	85	.	„ 112	..	
			Total, Minor produce	2	..	..	Mds.2,498	..	Mds 2,500	..	..	Mds 136	.	Mds 2,364	..	
Kurnool.	..	Nandikótkur	Gallnuts B ..	.	..	Forests ..	Mds. 500	..	Mds 500	..	..	..	..	Mds 500	..	
		Sarvél ..	Do B .	..	..	..	300	..	300	..	..	..	..	300	..	
		Velgode ..	Do. B .	..	..	..	230	..	230	..	..	..	..	230	..	
		Sandyál ..	Do B ..	..	..	..	500	..	500	.	..	..	.	500	..	
			Total, Minor produce.	..	..	.	Mds 1,530	..	Mds 1,530	..	..	..	..	Mds 1,530	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Bellary.	..	Bellary ..	Kamila ..	lb. ¾	..	..	..	..	lb. ¾	..	Forest musium ..	lb. ¾	..	..	..	
			Gallnuts B. ..	Mds. 77	..	..	..	..	Mds. 77	..	Sold	67¾	..	..	..	
											Wastage ..	9¼	..	..	..	
			Total, Minor produce.	Mds. 77	..	..	..	..	Mds. 77	..	..	77	..	..	..	
		Bukkapatnam.	Teakwood spokes and felloes.	108	15	..	..	..	108	15	Sold	108	15	..	..	
			Total, Timber ..	108	15	..	..	..	108	15	..	108	15	..	..	
Anantapur.	..	Bukkapatnam.	Honey ..	Mds. 57½	..	Forest ..	Mds. 22	..	Mds. 79½	..	Sold	Mds. 27¾	..	Mds. 42¾	..	
											Wastage	,, 6¼	..			
											Gooty exhibition.	,, ¼	..			
											Taken to Anantapur.	,, 2¼	..			
			Wax	,, ½	..	..	,, 1¼	..	,, 1¾	..	Sold	,, 1	..	,, ½	..	
											Dryage	,, ½	..			
			Gallnuts, C. ..	,, 1	..	..	,, 150	..	,, 151	..	Sold	,, 150½	..	..	..	
											Gooty exhibition.	,, ¼	..	..	..	
											Dryage	,, ¼	..	..	..	
			,, B. ..	,, 235	..	..	..	..	,, 235	..	Gooty exhibition.	,, ¼	..	..	..	
											Sown	,, 1¼	..	Mds. 233	..	
			Tamarind ..	,, 5	..	..	..	..	,, 5	..	Sold	,, 5	..	..	..	
			Kanuga seeds ..	,, 17	..	..	,, 2½	..	,, 19½	..	Do.	,, 19½	..	..	..	
			Teak ,, ..	..	..	..	,, 2½	..	,, 2½	..	..	..	..	,, 2½	..	
		Gooty ..	Babul pods ..	Mds. 269	..	..	,, 1,389	..	,, 1,658	..	..	..	..	,, 1,658	..	
			,, bark ..	Md. 1	..	..	..	..	Md. 1	..	..	..	..	Md. 1	..	
			Gum	..	..	..	Md 1	..	,, 1	..	Gooty exhibition.	Md. ¼	..	,, ¾	..	
		Anantapur.	Honey ..	..	..	..	Mds. 2¼	..	Mds. 2¼	..	Sold	Mds. 2¼	..	..	..	
			Total, Minor produce	586	..	..	Mds. 1,570½	..	Mds. 2,156½	..	..	Mds. 218	..	Mds. 1,938½	..	
Nilgiris.		Coonoor ..	Acacia planks ..	..	..	Bandy shola.	429	3,672	429	3,672	Sold	3	27	251	3,295	
											Used departmentally.	175	350			
			,, rafters ..	..	..	..	234	..	234	..	Do.	35		196	..	
			Blue gum drag poles.	8	4	Kóllar ..	..	..	8	4	Sold	3	..			
			Mis. ,,	252	..	..	744	..	996	..	,, ...	..	..	8	4	
											,, ...	744	..	252	..	
			Total, Timber ..	260	4	..	1,407	..	1,667	..	..	960	..	707	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1886-87—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1887		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity	Cubic feet	Number or Quantity.	Cubic feet.	
Nilgiris—*cont.*	..	Ootacamund.	Firewood (blue gum and shola wood.	Tons 359	..	Aramby, Baikie, Cairn hill and Governor's shola, &c.	Tons 956	..	Tons 1,315	..	Sold .. .. Dryage	Tons 465 463	.. ..	Tons 387	..	
			Charcoal ..	..	..	Bandy shola..	2	..	2	..	Sold .. .. Sample	lbs. 2,100 " 50 or ton 1	.. ..	Ton 1	..	
		Coonoor..	Firewood (blue gum and shola wood.	81	..	Coonoor peak and Brooklands.	Tons 155	..	236	..	Sold .. .. Wellington depôt. Dryage	103 18 12	.. .. ..	Tons 103	..	
		Wellington.	Do. ..	2	..	Coonoor peak and ghât reserve. Bandy shola.	705 18	..	725	..	Sold .. .. Used departmentally. Dryage ..	670 3 44	.. .. ..	" 8	..	
			Total, fuel ..	Tons 442	22,100	..	Tons 1,836	91,800	Tons 2,278	113,900	..	Tons 1,779	88,950	Tons 499	24,950	
		Kullár ..	Tamarind ..	Mds. 1	..	..	..	..	Mds. 1	..	Wastage.	Mds. 1	..	..	..	
			Total, Minor produce.	1	..	..	..	..	1	..	..	1	..	..	..	
			Abstract.													
			Sál logs, &c. ..	11	109	..	678	7,909	689	8,018	..	394	5,058	295	2,960	
			Teak poles, &c .	108	15	..	..	..	108	15	..	108	15	..	..	
			Ebony	..	..	..	6	36	6	36	..	1	4	5	32	
			Blackwood ..	6	63	..	2	13	8	76	..	4	48	4	28	
			Redsanders, roots and posts.	3	150	..	1,912¼	94,877	1,915¼	95,027	..	1,915	95,015	¼	12	
			Sleepers, pieces and slabs, &c.	52	..	..	2,565	..	2,617	..	..	440	..	2,177	..	
			Miscellaneous wood (logs and poles).	318	988	..	6,377	9,329	6,695	10,317	..	2,798	3,294	3,897	7,023	
			Fuel	56,949	22,749	..	2,321,531	99,791	2,378,480	122,540	..	1,345,210	95,080	1,033,270	27,460	
			Bamboos ..	..	..	..	1,200	..	1,200	..	..	1,200	..	..	..	
			Nux-vomica ..	..	..	..	963	Mds.	963	Mds.	..	Mds. 928	..	Mds. 35	..	
			Cheyroot ..	Mds. 220	..	..	..	..	Mds. 220	..	..	" 220	..	..	..	
			Soapnuts ..	..	..	..	Mds. 420	..	" 420	..	..	" 420	..	..	..	
			Tangedu ..	..	..	..	" 197	..	" 197	..	..	" 85	..	Mds. 112	..	
			Honey ..	Mds. 58½	..	..	" 24½	..	" 82¾	..	..	" 40	..	" 42¾	..	
			Wax	" 1½	..	..	" 1¼	..	" 2¾	..	..	" 2¼	..	" ½	..	
			Gallnuts B ..	" 312	..	..	" 1,534	..	" 1,846	..	..	" 79½	..	" 1,766½	..	
			Gallnuts C ..	" 1	..	..	" 2,979	..	" 2,980	..	..	" 671	..	" 2,309	..	
			Gillo-nuts ..	..	..	..	" 1,020	..	" 1,020	..	..	" 213	..	" 806	..	
			Suratichekka ..	..	..	..	" 86	..	" 86	..	..	" 4	..	" 82	..	
			Tamarind ..	Mds. 6	..	..	..	..	" 6	..	..	" 6	..	..	..	
			Babul Pods ..	" 269	..	..	Mds 1,389	..	" 1,658	..	..	..	..	" 1,658	..	
			Babul Bark ..	" 1	..	..	..	..	" 1	..	..	..	..	" 1	..	
			Kanuga seeds ..	" 17	..	..	Mds 2½	..	" 19½	..	..	Mds. 19½	..	..	..	
			Teak	..	..	..	" 2½	..	" 2½	..	..	..	..	Mds. 2½	..	
			Soymida gum ..	..	..	..	" 2	..	" 2	..	..	" ½	..	" 1½	..	
			Rattans ..	Bdls. 21	..	..	Bdls. 210	..	Bdls. 231	..	..	Bdls. 210	..	Bdls. 21	..	Each bundle ¼ a maund estimate.
			Mangoes ..	..	..	..	936	..	936	..	..	936	..	..	..	
			Kamilla dye ..	lb. ¾	..	..	..	..	lb. ¾	..	..	lb. ¾	..	..	..	
			Babuli and chona grass.	..	..	..	Bds. 86,800	..	Bds. 86,800	..	..	Bds. 86,800	..	..	..	Do.

Annual Form No. 71.

Forest Department, Madras, Northern Circle.

Sales of timber and other produce cut and collected by Government Agency during the year 1886-87.

District	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold from Depot.			RS. A. P.	RS. A. P.	RS A. P.			
Ganjam ..	..	Russellkondah.	I (a)	Sál logs	3	7	0 1 5	3 1 6	3 1 6	3	..	
				Piassál ,, . ..	1	4	0 8 0	2 0 0	2 0 0	1	..	
				Sajo ,, ...	4	35	0 4 1	9 1 0	9 1 0	4	..	
				Blackwood logs ..	4	48	0 6 0	18 0 0	18 0 0	4	..	
				Cotton tree	1	26	0 1 6	2 7 0	2 7 0	1	..	
				Miscellaneous logs ..	1	3	0 1 6	0 4 6	0 4 6	1	..	
				Sál logs	2	32	1 0 2	32 7 2	32 7 2	2	..	
	..	Suradá ..	Do.	Ebony logs	1	4	1 0 0	4 4 9	4 4 9	1	..	
				Sajo logs	4	63	0 6 0	23 10 0	23 10 0	4	..	
	..	Madras ..	Do.	Sál logs	4	129	0 12 0	97 2 0	97 2 0	4	..	
				Total, Timber ..	25	351	..	192 5 11	192 5 11	25	..	
	..	Russellkondah..	I (b)	Firewood (chips, &c.)	Tons 50	250	Auction.	21 7 0	21 7 0	Tons 50	..	
				Total, fuel ..	Tons 50	250	..	21 7 0	21 7 0	Tons 50	..	
	..	Do. ..	I (c)	Bamboos (old) ..	1,200	..	Auction.	0 4 0	0 4 0	1,200	..	
				Total, Bamboos ..	1,200	..	..	0 4 0	0 4 0	1,200	..	
	..	Do. ..	I (e)	Babuli grass	Bdls. 3,000	..	Auction.	1 0 0	1 0 0	Bdls. 3,000	..	
				Nux-vomica	Bags 34	..	1 *8 0 a bag.	51 0 0	51 0 0	Bags. 34	..	1 Bag = 2 Mds. estimate.
				Gillo-nuts	lbs. 2,560	..	..	2 0 0	2 0 0	lbs. 2,560	..	
	..	Suradá	Do.	Gallnuts	,, 9,180	..	..	56 0 0	56 0 0	,, 9,180	..	
				Nux-vomica	,, 1,488	..	..	12 12 0	12 2 0	,, 1,488	..	
				Total, Minor produce.	Mds. 2,097	..	..	122 12 0	122 2 0	..	..	
				Total, Ganjam ..	..	..	..	336 12 11	336 2 11	..	..	
Kistna ..	..	Bezvâda ..	I (b)	Fuel	Tons 7	350	Auction.	26 8 0	26 8 0	Tons 7	..	
				Total, Kistna ..	Tons. 7	350	..	26 8 0	26 8 0	Tons 7	..	

Sales of timber and other produce cut and collected by Government Agency during the year 1886-78—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							RS. A. P.	RS. A. P.	RS. A. P.			
Nellore ..		Madras ..	I (a)	Narudu Poles ..	629	640	..	135 8 6	135 8 6	629	..	
				Total, Timber ..	629	640	..	135 8 6	135 8 6	629	..	
			I (b)	Firewood	1,302,670	Tons. 1,445	..	13,879 11 3	13,879 11 3	1,302,670	..	
				,, bundles ..	31,828	,, 1,220	..	8,135 7 9	8,135 7 9	Bnds. 31,828	..	
				,, casuarina ..	1,245	,, 1,245	..	9,734 4 1	9,734 4 1	Tons 1,245	..	
				Total, Fuel ..	..	Tons 3,910 or 1,95,500	..	31,749 7 1	31,749 7 1	..	..	
			I (c)	Nux-vomica ..	Mds. 790	..	..	567 8 5	567 8 5	..	..	Balance of previous year paid in 1886-87. * Deposit.
				Chayroot	219	..	Rs. 82 per candy.	65 9 10	65 9 10	..	..	
				Suratichekka ..	..	..	..	..	*40 0 0	..	..	
				Soapnuts	Mds. 420	..	..	189 0 0	189 0 0	Mds. 189	..	
				Rattans	Bundles 210	..	..	1,185 8 0	1,185 8 0	Bndls. 210	..	
				Total, Minor produce.	Mds. 1,534	..	..	2,007 10 3	2,047 10 3	..	..	
				Total, Nellore ..	..	..	..	33,892 9 10	33,932 9 10	..	..	
Cuddapah ..	..	Kodúr	I (a)	Red sanders roots, &c.	Tons 960	95,000	18 4 0 per ton. / 17 4 0 ,,	17,420 0 0	17,420 0 0	Tons 860	100	
		Orampád ..	Do.	Do. do. ..	800		18 4 0 ,,	14,600 0 0	14,600 0 0	,, 220	580	
		Peddapad ..	Do.	Do. do. ..	140		18 4 0 ,,	2,555 0 0	2,555 0 0	,, 140	..	
		Rájampet ..	Do.	Do. posts No...	690	690	Auction.	218 6 0	218 6 0	,, 692	..	
				Miscellaneous ..	2	2						
				Total, Timber ..	..	95,692	..	34,793 6 0	34,793 6 0	..	.	
		Cuddapah ..	I (c)	Gallnuts	Mds. 37	..	2 1 0 / 1 0 0 a maund.	74 3 3	74 3 3	Mds. 37	..	
		Madanapalle ..	Do.	Mangoes	No. 936	..	Auction.	12 3 0	12 3 0	No. 936	..	
				Tangedu bark ..	Mds. 85	..	Do.	81 0 0	81 0 0	Mds. 85	..	
				Total, Minor produce.	Mds. 134	..	..	167 6 3	167 6 3	..	..	
				Total, Cuddapah ..	..	..	..	34,960 12 3	34,960 12 3	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Bellary	..	Bellary	I (e)	Gallnuts	Maunds 67½	..	Rs. 0-2-0 per Md. ..	8 7 0	8 7 0	Maunds 67½	..	
				Total, Minor produce.	Maunds 67½	..	..	8 7 0	8 7 0	Maunds 67½	..	
				Total, Bellary ..	..	..	..	8 7 0	8 7 0	..	..	
Anantapur	..	Bukkapatnam ..	I (e)	Teakwood spokes and felloes.	108	15	Auction.	4 8 0	4 8 0	108	15	
				Total, Timber ..	108	15	..	4 8 0	4 8 0	108	15	
	..	Do. ..	I (e)	Honey	Maunds 27¾	..	Rs. 2 0 0 } Mds. ,, 2 4 0 }	59 13 4	59 13 4	Maunds 27¾	..	
				Wax	Maund 1	..	..	9 1 0	9 1 0	Maund 1	..	
				Gallnuts C.	Maunds 150½	..	..	71 9 5	71 9 5	Mds. 150½	..	
				Tamarind	,, 5	..	Rs. 0 8 0 a Md.	2 8 0	2 8 0	,, 5	..	
				Kanuga seeds ..	,, 19½	..	Auction.	0 10 0	0 10 0	,, 19½	..	
	..	Anantapur ..		Honey	,, 2¼	..	..	10 12 0	10 12 0	,, 2¼	..	
				Total, Minor produce.	Maunds 206	..	..	154 5 9	154 5 9	206	..	
				Total, Anantapur ..	..	..	..	158 13 9	158 13 9	..	..	
Nílgiri ..	Coonoor	..	I (e)	Acacia planks ..	3	24	..	15 13 0	15 13 0	Planks 3	..	
				,, rafters ..	3	20	..	2 12 6	2 12 6	3	..	
	..	Kullar		Bluegum drag poles ..	744	744	Rs. 0 3 0 each.	139 8 0	139 8 0	Poles 744	..	
	..	Coonoor ..		,, ,, ..	1,227	1,227	,, 0 2 0 ,,	153 6 0	153 6 0	,, 1,227	..	
	..	Kótagiri ..		,, ,, ..	78	78	,, 0 2 0 ,,	9 12 0	9 12 0	,, 78	..	
				,, ,, ..	3	3	,, 0 3 0 ,,	0 9 0	0 9 0	,, 3	..	
				Total, Timber ..	2,058	2,096	..	321 12 6	321 12 6	2,058	..	
	..	Ootacamund ..	I (b)	Firewood	Tons 465	..	Rs. 3-4-0 per 1,000 lb.	3,194 13 4	2,996 13 11	Tons 465	..	
				Charcoal	Lb. 2,100	..	,, 0-15-0 ,, 50 ,,	40 8 0	40 8 0	Lb. 2,100	..	
	..	Coonoor ..		Firewood	Tons 78	..	,, 2-12-0 ,, 1,000 ,,	480 15 0	480 15 0	Tons 78	..	
				Bluegum bark ..	Lots 12	..	Auction.	4 14 0	4 14 0	Lots 12	..	
				Charcoal	Lb. 250	..	Rs. 1-0-0 a lb.	5 0 0	..	..	..	
	..	Wellington ..		Firewood	Tons 643	..	{ ,, 3-11-0 } per 1,000 { ,, 2-12-0 } lb.	5,124 10 3	4,838 10 10	Tons 546	..	
				Barks and chips ..	Lots 36	..	Auction.	26 5 0	26 5 0	Lots 36	..	
				Total, Fuel and Charcoal.	Tons 1,239	61,950	..	8,877 1 7	8,388 2 9	..	..	
				Total, Nílgiris ..	..	..	..	9,198 14 1	8,709 15 3	..	..	
				Total sold from depôt	..	..	..	78,582 13 10	78,133 5 0	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.				RS. A. P.	RS. A. P.			
Ganjam	..	Mojjagodo ..	I (a)	Sál log and poles ..	156	1,760	..	487 13 0	487 13 0	Logs 156	..	
				Sajo	1	24	Rs. 0 2 6	3 12 0	3 12 0	,, 1	..	
				Dhau	1	34	,, 0 2 6	5 5 0	5 5 0	,, 1	..	
	..	Kukúluba ..	..	Sál logs	33	525	..	97 5 9	97 5 9	,, 33	..	
				,, poles	272	1,360	Rs. 0 2 0	170 0 0	170 0 0	Poles 272	..	
				Sajo	2	24	,, 0 2 6	3 12 0	3 12 0	Logs 2	..	
				Dhau	10	157	,, 0 2 6	24 8 6	24 8 6	,, 10	..	
				Total, Timber ..	475	3,884	..	792 8 3	792 8 3	..	..	
				Total, Ganjam ..	..	..	..	792 8 3	792 8 3	..	..	
Vizagapatam	..	Golgonda ..	I (a)	Miscellaneous ..	..	30	Auction.	14 1 9	14 1 9	C. ft. 30	..	
				Total, Timber ..	..	30	..	14 1 9	14 1 9	..	..	
				Total, Vizagapatam ..	..	..	..	14 1 9	14 1 9	..		
Godávari ..	..	Godávari river.	I (a)	Teak	822	5,117	Auction.	3,107 10 9	3,107 10 9	822	..	Drift timber.
				Miscellaneous ..	703	6,005				703		
				Total, Timber ..	1,522	11,122	..	3,107 10 9	3,107 10 9	1,525	..	
				Total, Godávari ..	..	..	..	3,107 10 9	3,107 10 9	..	..	
Kistna ..	..	Bezváda ..	I (a)	Tumma poles ..	17	34	Auction.	18 11 6	18 11 6	Poles 17	..	
				Total, Timber ..	17	34	..	18 11 6	18 11 6	..	..	
			I (b)	Firewood	Tons 3	..	Auction.	9 0 0	9 0 0	Tons 3	..	
				Total, Fuel ..	..	..	..	9 0 0	9 0 0	..	..	
				Total, Kistná ..	..	..	..	27 11 6	27 11 6	..	..	
Nellore ..	..	Srîharikót ..	I (a)	Stakes and pegs ..	46,000	920	Rs. 0 8 0 per 100	230 0 0	..	..	..	
		Udayagiri ..	..	Sleepers and posts ..	339	565	Auction.	23 0 3	23 0 3	339	..	
		Plantations ..	..	Casuarina poles ..	644	737	Rs. 8 8 0	208 13 0	208 13 0	644	..	
			..	Palmyra rafters, &c.	69	72	Auction.	22 5 6	22 5 6	69	..	
				Total, Timber ..	47,052	2,294	..	484 2 9	254 2 9	..	..	

Sale of timber and other produce cut and collected Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Nellore—*cont.*	..	Plantations ..	I.(δ)	Casuarina ..	Tons 1,356 " 161	..	Various.	9,113 12 7	6,767 11 9	..	..	
				Total Fuel ..	Tons 1,517	..	..	9,113 12 7	6,767 11 9	..	..	
	..	Sríharikót ..	I (e)	Orchella	Maunds 13	..	Rs. 25 4 0 per candy.	16 6 7	16 6 7	..	..	
				Honey	" 2½	..	" 0 4 3 " viss.	5 5 6	5 5 6	..	..	
				Wax	" ½	..	" 85 0 0 " candy.	2 10 6	2 10 6	..	..	
				Tamarind	" 201	..	" 16 4 0 " "	163 14 9	163 14 9	..	..	
				Palmyra leaves, &c...	" 300	..	Auction.	0 9 1	0 9 1	..	..	
				Casuarina plants ..	" 4,100	..	Rs. 3 0 0 per 1,000.	13 2 0	13 2 0	..	..	
				Total, Minor produce.	Maunds 217	..	..	202 0 5	202 0 5	..	..	
				Total, Nellore ..	..	..	..	9,799 15 9	7,223 14 11	..	..	
Cuddapah.	..	Cuddapah ..	I (e)	Palmyra trees ..	49	98	..	84 9 0	84 9 0	49	98	
				Total, Timber ..	49	98	..	84 9 0	84 9 0	..	..	
	..	Madánapalle ..	I (e)	Pumplemose ..	1,200	..	Rs. 0 10 0 per 100.	7 8 0	7 8 0	1,200	..	
				Oranges	600	..	" 0 8 0 "	3 0 0	3 0 0	600	..	
				Total, Minor produce.	1,800	..	..	10 8 0	10 8 0	1,800	..	
				Total, Cuddapah ..	..	..	..	95 1 0	95 1 0	..	..	
Kurnool ..	..	Nandyál ..	I (δ)	Firewood	..	250,677	..	19,296 8 5	19,296 8 5	C. ft. 250,677	..	
				Total, Fuel ..	..	250,677	..	19,296 8 5	19,296 8 5	C. ft. 250,677	..	
				Total, Kurnool ..	..	..	..	19,296 8 5	19,296 8 5	..	..	
Bellary ..	..	Sandúr ..	I (e)	Teak poles	194	595	Rs. 1 2 0 " 1 8 0	223 2 0	223 2 0	194	..	
				Miscellaneous poles ..	32	32	" 1 0 0 each.	32 0 0	32 0 0	32	..	
				Rafters	1,392	348	" 0 1 3 "	110 1 10	110 1 10	1,392	..	
				Total, Timber ..	1,618	975	..	365 3 10	365 3 10	1,618	..	

Sales of timber and other produce cut and collected Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
								RS. A. P.	RS. A. P.			
Bellary—*cont.*	..	Sandúr ..	I (*b*)	Firewood	Tons 1,657	..	..	4,034 15 0	4,034 15 0	Tons 1,657	..	
				Do creepers ..	,, 270	..	..	595 12 5	595 12 5	,, 270	..	
				Brushwood	,, 134	..	..	121 4 0	121 4 0	,, 134	..	
	..	Adóni ..	..	Casuarina	,, 43 or 10	..	Auction.	30 0 0	30 0 0	,, 43 or 10	..	
	..	Sandúr ..	..	Charcoal	Maunds 2	..	Rs. 0 6 0 a md	0 12 0	0 12 0	Mds. 2	..	
				Total, Fuel, &c. ..	Tons 2,071	..	..	4,782 11 5	4,782 11 5	Tons 2,071	..	
	..	Do. ..	I (*c*)	Bamboos	33,725	..	..	931 13 0	931 13 0	33,725	..	
				Total, Bamboos ..	33,725	..	..	931 13 0	931 13 0	33,725	..	
	..	Do. ..	I (*e*)	Gallnuts C.	Mds. 154	..	Rs. 0 6 0 a md.	57 12 0	57 12 0	Mds. 154	..	
				Sheakoy	,, 1¾	..	,, 1 4 0 ,,	2 3 0	2 3 0	,, 1¾	..	
				Honey	Bottles 7	..	,, 0 8 0 a bottle.	3 8 0	3 8 0	Bottles 7	..	½ maund estimate
				Tangedu bark ..	Maunds 23	..	Auction.	10 0 0	10 0 0	Mds. 23	..	
				Jack fruits	,, 50	12	Rs. 16 0 0 per 100.	8 0 0	8 0 0	50	..	
				Total, Minor produce.	Mds. 191¼	..	..	81 7 0	81 7 0	Mds. 191¼	..	
				Total, Bellary ..	..	..	..	6,161 3 3	6,161 3 3	..	..	
Anantapur	..	Hindupúr ..	I (*a*)	Miscellaneous timber.	Tons 1½	..	..	4 8 0	4 8 0	Tons 1½	..	
				Do. do. posts	6	..	Auction.	3 6 6	3 6 6	6	..	
				Total, Timber ..	..	81	..	7 14 6	7 14 6	..	..	
	..	All Ranges ..	I (*b*)	Firewood	Tons 133	..	Rs. 0 4 2 a ton.	35 1 6	35 1 6	Tons 133	..	
				Total, Fuel ..	Tons 133	..	..	35 1 6	35 1 6	Tons 133	..	
	..	All Ranges ..	I (*e*)	Honey	Maunds 2	..	..	2 0 0	2 0 0	Mds. 2	..	
				Gallnuts	,, 140	..	..	77 3 0	77 3 0	,, 140	..	
				Kanuga seeds ..	,, 7½	..	..	2 0 0	2 0 0	,, 7½	..	
	..	Hindupúr ..	..	Sara do. ..	,, 2	..	..	7 13 0	7 13 0	,, 2	..	
				Tamarind	,, 30	..	Rs. 0 4 3 a md.	8 0 0	8 0 0	,, 30	..	
	..	Muchukota ..	..	Mango fruits ..	Fruits 300	..	Auction.	0 6 3	0 6 3	Fruits 300	..	75 per maund estimate
				Total, Minor produce.	Maunds 256½	..	..	97 6 3	97 6 3	Mds. 256½	..	
				Total, Anantapur ..	..	..	..	140 6 3	140 6 3	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1886-87—*cont.*

District.	Range.	Depôt or locally.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
							RS. A. P.	RS A. P.	RS. A. P.			
Nílgiris ..	..	Benne ..	I (a)	Teak	3	98	0 12 0	73 8 0	73 8 0	C. feet. 98	..	
	..			Do.	93	3,650	0 14 0 0 12 0	1,904 10 0 281 4 0	1,823 0 0 281 4 0	„ 3,650	..	
		Teppacadu ..		Do. poles	..	150	0 8 0 0 4 0	50 0 0	50 0 0	„ 150	..	
				Do. pieces	..	600	0 6 0	100 0 0	100 0 0	„ 600	..	
				Venteak	12	396	0 8 0	198 0 0	198 0 0	„ 396	..	
				Blackwood	18	291	0 7 0	141 0 0	141 0 0	„ 291	..	
				Vengai	88	2,427	0 4 6	728 3 0	728 3 0	„ 2,427	..	
				Mutti	131	1,145	0 3 0 0 1 6	176 10 0	176 10 0	„ 1,145	..	
				Miscellaneous pieces.	3,350	990	Auction.	250 0 0	250 0 0	„ 990	..	
				Total, Timber ..	3,695	9,747	..	3,903 3 0	3,821 9 0	„ 9,747	..	
	..	Cotacamund ..	I (b)	Firewood (blue gum.)	Tons. 641	..	2 12 3	1,963 4 9	1,771 12 0	Tons. 641	..	
				„ (sholawood.)	„ 283	..	3 8 10	1,006 10 0	1,006 10 0	„ 283	..	
	..	Coonoor ..	Do. ..	„ (blue gum.)	„ 600	..	2 6 11	1,460 8 0	1,286 8 0	„ 600	..	
				„ (sholawood.)	„ 120	..	2 14 0	343 2 0	343 2 0	„ 120	..	
				„ (miscellaneous.	„ 150	..	0 7 0	67 7 0	67 7 0	„ 150	..	
				Charcoal	„ 2¾	..	30 12 0	84 8 0	52 12 0	„ 2¾	..	
				Total, Fuel and charcoal	Tons. 1,796¾	..	..	4,925 7 9	4,528 3 0	Tons. 1,796¾	..	
	..	Sigúr	I (d)	Sandalwood roots ..	Mds. 2,000	..	4 8 0 a maund.	9,000 0 0	9,000 0 0	Mds. 2,000	..	
				Total, Sandalwood ..	Mds. 2,000	..	..	9,000 0 0	9,000 0 0	Mds. 2,000	..	
	..	Sigúr	I (e)	Gallnuts C.	Mds. 1,870	..	0 8 0 a maund.	935 9 0	935 0 0	Mds. 1,870	..	
	..	All ranges ..	..	Sheakoy	„ 39	..	0 8 0 0 12 0 „	21 12 0	21 12 0	„ 39	..	
				Honey	Bottles 33	..	0 6 0 a bottle.	12 6 0	12 6 0	Bottles 33	..	
				Wax	Mds. 3	..	6 8 0 a maund.	19 8 0	19 8 0	Mds. 3	..	2 Mds. estimate.
				Coffee	„ 9	..	Auction.	31 4 0	31 4 0	„ 9	..	
				Total, Minor produce.	Mds. 1,923	..	..	1,019 14 0	1,019 14 0	Mds. 1,923	..	
				Total. Nílgiris ..	..	..	..	18,848 8 9	18,369 10 0	..	..	
				Total sold locally ..	..	..	..	55,176 0 11	52,121 1 4	..	..	
				Total Drift ..	..	..	..	3,107 10 9	3,107 10 9	..	..	
				Grand Total ..	..	..	..	1,36,866 9 6	1,33,362 1 1	..	..	

ANNUAL FORM No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected and removed from the forests by consumers or purchasers, including pasture, during the year 1886-87.

District.	Produce removed. Description	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			RS.	RS.	
Ganjam ..	Timber .. .. .. Cart-loads.	85	280	280	
	Do. .. .. .. Trees.	..	104	104	
	Total, Timber ..	85	384	384	II (a).
	Firewood .. .. Cart-loads.	47,460	12,073	12,073	
	Charcoal .. .. .. ,,	154	270	270	
	Total, Firewood and Charcoal. ,,	47,614	12,343	12,343	II (b) Rs. 12,344 in form 64.
	Bamboos .. .. .. Cart-loads.	7,889	3,231	3,231	
	Total, Bamboos .. Cart-loads.	7,889	3,231	3,231	II (c).
	Lease of grass, &c.	..	5	5	
	Total Grazing ..	..	5	5	II (d).
	Lease of fruits in different topes ..	..	655	655	
	Total, Minor produce ..	..	655	655	II (e).
	Grand Total .. Cart-loads.	55,588	16,618	16,618	Rs. 16,619 in form 64.
Vizagapatam	Timber .. .. .. Cart-loads.	407	921	921	
	Total, Timber .. Cart-loads.	407	921	921	II (a) Rs. 461 in form 64.
	Firewood.. .. .. Cart-loads.	5,114	1,941	1,941	
	Charcoal .. .. .. ,,	281	457	457	
	Total, Firewood and Charcoal. ,,	5,395	2,398	2,398	II (b).
	Bamboos .. .. .. Cart-loads.	2,970	986	986	
	Total, Bamboos .. Cart-loads.	2,970	986	986	II (c).
	Other minor produce	..	113	113	
	Total, Minor produce ..	..	113	113	II (e).
	Grand Total .. Cart-loads.	8,772	4,418	4,418	Rs. 3,958 in form 64.
Godávari ..	Timber .. .. .. Cart-loads.	2,600	4,767	4,767	
	Do. .. .. .. Pieces.	86,025	17,945	17,945	
	Sale-proceeds of trees	..	1,131	1,131	
	Total, Timber .. No. / Cart-loads.	86,025 / 2,600	23,843	23,843	II (a).
	Firewood.. .. .. Cart-loads.	15,544	5,606	5,606	
	Do. Marine Department contract.	..	100	100	
	Sale of dead trees	..	158	158	
	Charcoal .. .. .. Cart-loads.	116	351	351	
	Total, Firewood and Charcoal Cart-loads ..	15,660	6,215	6,215	II (b).
	Bamboos .. .. .. Cart-loads. / No.	8,897 / 452,705	9,737 / 2,258	9,737 / 2,258	
	Total, Bamboos .. Cart-loads. / No.	8,897 / 452,705	11,995	11,995	II (c) Rs. 11,994 in form 64.
	Grazing	..	971	971	
	Total, Grazing ..	..	971	971	II (d).
	Other, minor produce	..	539	539	
	Total, Minor produce ..	..	539	539	II (e).
	Grand Total .. No. / Cart-loads.	538,730 / 27,157	43,563	43,563	Rs. 43,562 in form 64.

Timber and other produce cut, collected and removed from the forests, &c.—*cont*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year	Remarks.
			RS.	RS.	
Kistna ..	Timber .. .. .. Cart-loads.	14,834	11,562	11,562	
	Palmyra trees .. .. No.	1,004			
	Total, Timber .. Cart-loads.	14,834	11,562	11,562	II (*a*) Rs. 12,389 in form 64.
	Total, Timber .. No.	1,004			
	Firewood .. .. Cart-loads.	85,177	6,586	6,586	
	Charcoal .. .. .. ,,	213	401	401	
	Total, Firewood and Charcoal. ,,	85,390	6,987	6,987	II (*b*) Rs. 8,052 in form 64.
	Bamboos .. .. .. Cart-loads.	1,115	1,351	1,351	
	Total, Bamboos .. Cart-loads.	1,115	1,351	1,351	II (*c*) Rs. 1,425 in form 64.
	Grazing	..	39,327	39,327	
	Total, Grazing ..	..	39,327	39,327	II (*d*) Rs. 37,027 in form 64.
	Palmyra leaves	..	205	205	
	Other minor produce	..	13,453	13,453	
	Total, Minor produce ..	..	13,658	13,658	II (*e*) Rs. 16,323 in form 64.
	Grand Total .. No.	1,004	72,885	72,885	Rs. 76,116 in form 64.
	Grand Total .. Cart-loads.	101,339			
Nellore ..	Palmyra trees .. .. No.	374	663	663	
	Timber .. .. .. Cart-loads.	334	472	472	
	Sale of trees on dharkhast lands, &c ..	..	5,250	5,250	
	Total, Timber .. No.	374	6,385	6,385	II (*a*) Rs. 6,337 in form 64.
	Total, Timber .. Cart-loads.	334			
	Firewood.. .. .. Cart-loads.	4,077	3,949	3,415	
	Sale of firewood on Asalaminah lands..	..	1,371	1,306	
	Total, Firewood .. Cart-loads.	4,077	5,320	4,721	II (*b*) Rs. 4,816 in form 64.
	Bamboos .. .. .. Cart-loads.	1	3	3	
	Total, Bamboos .. Cart-loads.	1	3	3	II (*c*).
	Grazing and fodder grass	..	4,683	4,683	
	Total grazing and fodder grass ..	..	4,683	4,683	II (*d*).
	Rents of topes of jungle products, &c.	..	3,328	3,328	
	Soapstone licenses .. .. No.	33	66	66	
	Rents and sales of palmyra leaves ..	..	1,020	607	
	Rents on tangedu bark	..	14,406	14,400	
	Other minor produce	..	103	103	
	Total, Minor produce .. No.	33	18,917	18,504	II (*e*) Rs. 15,072 in form 64.
	Grand Total .. No.	407	35,308	34,296	Rs. 31,811 in form 64.
	Grand Total .. Cart-loads.	4,412			
Cuddapah ..	Miscellaneous timber .. Cart-loads.	1,804	13,596	13,596	As per details given in the same form for 1884-85.
	Miscellaneous timber .. No.	374			
	Trees on durkhast land. ,,	16,129	5,386	5,386	
	Total, Timber .. No.	16,503	18,982	18,982	II (*a*).
	Total, Timber .. Cart-loads.	1,804			
	Firewood .. .. .. Cart-loads.	39,042	15,102	15,102	
	Sale of dead trees .. ,,	20,452	8,787	8,787	
	Engine fuel .. .. ,,	22,696	25,508	25,508	
	Charcoal .. .. .. ,,	598	1,068	1,068	
	Total, Firewood and Charcoal, Cart-loads.	83,688	50,465	50,465	II (*b*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.		Number or quantity.	Amount of revenue.	Amount actually realised during the year.	Remarks.
				Rs.	Rs.	
Cuddapah—*cont*	Bamboos	No.	855,016	6,623	6,623	
	Total, Bamboos ..	No.	855,016	6,623	6,623	II (*c*).
	Fodder grass	Cart-loads.	254	79	79	
	Grazing fees	No.	1,317	95	95	
	Total Grazing and Fodder grass ..	No.	1,317	174	174	II (*d*)
		Cart-loads.	284			
	Tangedu bark	Cart-loads	1,296	5,162	5,162	
	Miscellaneous barks ..	,,	177	248	248	
	Lease of fruit trees		..	26,825	26,825	
	Other minor produce		..	3,609	3,609	
	Total, Minor produce ..	Cart-loads.	1,473	35,844	35,844	II (*e*) Rs. 35,846 in form 64.
	Grand Total ..	No	872,836	1,12,088	1,12,088	Rs. 1,12,090 in form 64
		Cart-loads.	87,240			
Kurnool ..	Timber	Cart-loads.	19,646	42,738	42,738	
	Total, Timber ..	Cart-loads.	19,646	42,738	42,738	II (*a*).
	Firewood	Cart-loads.	18,130	16,639	16,639	
	Charcoal	,,	1,821			
	Engine fuel		..	4,255	4,255	
	Total, Firewood and Charcoal,	Cart-loads.	19,951	20,894	20,894	II (*b*) Rs. 17,589 in form 64
	Bamboos	Cart-loads.	12,184	14,332	14,332	
	Total, Bamboos ..		12,184	14,332	14,332	II (*c*) Rs 14,331 in form 64
	Grazing		..	1,109	1,109	
	Total, Grazing ..		..	1,109	1,109	II (*d*).
	Minor produce	Cart-loads.	941	1,659	1,659	
	Total, Minor produce ..	Cart-loads	941	1,659	1,659	II (*e*).
	Grand Total ..	Cart-loads.	52,722	80,732	80,732	Rs. 77,426 in form 64
Bellary ..	Timber	No.	109	725	725	
		Cart-loads	418			
	Trees on durkhast lands		..	421	421	
	Total, Timber ..	No.	109	1,146	1,146	II (*a*) Rs. 1,105 in form 64.
		Cart-loads.	418			
	Firewood	Cart-loads	663	1,864	1,864	
	Deadwood	No	80	888	888	
		Cart-loads.	2,418			
	Charcoal	,,	339	507	507	
	Total, Firewood and Charcoal ..	No.	80	3,259	3,259	II (*b*).
		Cart-loads	3,420			
	Bamboos	No.	1,465	37	37	
		Cart-loads.	3			
	Total, Bamboos ..	No	1,465	37	37	II (*c*).
		Cart-loads.	3			
	Fodder grass	Cart-loads.	283	143	143	
	Grazing fees		..	194	194	
	Total, Grazing and Fodder grass	Cart-loads	283	337	337	II (*d*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District	Produce removed: Description		Number or quantity	Amount of revenue	Amount actually realized during the year	Remarks
				RS	RS	
Bellary—*cont*	Tangedu bark, &c. ..	Cart-loads	1,106	4,392	4,392	
	Soapstone	,,	47	5	5	
	Leaves for manure ..	,,	55	20	20	
	Rent of fruit trees		..	10,034	10,034	
	Other minor produce		..	17	17	
	Total, Minor produce ..	Cart-loads	1,208	14,468	14,468	II (*e*)
	Grand Total .	No	1,654	19,247	19,247	Rs 19,206 in form 64
		Cart-loads	5,332			
Anantapur	Palmyra trees	No	113	328	328	
	Timber ..	Cart-loads	193	400	400	
	Miscellaneous trees		..	220	220	
	Total, Timber ..	No	113	948	948	II (*a*)
		Cart-loads	193			
	Firewood	Cart-loads	1,074	951	951	
	Deadwood	,,	2,001	1,059	1,059	
	Charcoal	,,	56	59	59	
	Total, Firewood and Charcoal,	Cart-loads	4,031	2,069	2,069	II (*b*) Rs 2,068 in form 64
	Bamboos	Cart-loads	127	286	286	
	Total Bamboos ..	Cart-loads	127	286	286	II (*c*)
	Grass		.	6	6	
	Total, Grazing		.	6	6	II (*d*)
	Tangedu bark	Cart-loads	745	6,331	6,331	Includes 2,606, amount of deposit
	Do leaves . ..	,,	7,897	2,024	2,024	
	Jolli contract		.	2,252	2,252	
	Amroy		..	3,811	3,811	
	Palmyra leaves .. .		..	40	40	
	Roughstone ..	Cart-loads	50	3	3	
	Total, Minor produce ..	Cart-loads	8,692	14,461	14,461	II (*e*) Rs 14,481 in form 64
	Grand total ..	No	113	17,770	17,770	Rs 17,789 in form 64
		Cart-loads	13,043			
Nilgiris	Teak trees	No	15	499	499	
		Cart-loads	69			
	Miscellaneous trees ..	No	605	1,426	1,426	
		Cart-loads	5			
	Total, Timber ..	No	620	1,925	1,925	II (*a*)
		Cart-loads	74			
	Firewood	Cart-loads.	4,989	5,829	5,829	
	Charcoal ..	,,	3	12	12	
	Total, Firewood and Charcoal,	Cart-loads	4,992	5,841	5,841	II (*b*) Rs. 5,702 in form 64
	Bamboos	No	122,250	1,825	1,825	
		Cart-loads	491			
	Total, Bamboos	No	122,250	1,825	1,825	II (*c*) Rs 1,821 in form 64.
		Cart-loads	491			
	Grazing lease		..	164	164	
	Fodder grass	Cart-loads	267	86	86	
	Grazing fees		..	163	163	
	Total, Grazing and Fodder grass,	Cart-loads	267	413	413	II (*d*) Rs 326 in form 64.

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.		Number or quantity	Amount of revenue.	Amount actually realized during the year.	Remarks.
				RS.	RS.	
Nilgiris—*cont.*	Vemladam bark ..	Cart-loads	14	140	140	
	Canes	No.	500	23	23	
		Cart-loads	15			
	Reeds . ..	No.	5,025	39	39	
		Cart-loads	56			
	Wattle	..	..	11	11	
	Wild date		..	30	30	
	Coffee seeds		..	37	37	
	Other minor produce		..	394	394	
	Total, Minor produce .	No	5,525	674	674	II (*e*) Rs. 727 in form 64.
		Cart-loads.	85			
	Grand Total ..	No.	128,395	10,678	10,678	Rs. 10,501 in form 64.
		Cart-loads.	5,909			
	Grand Total of Revenue of the Northern Circle under II.	No.	1,543,139	4,13,307	4,12,295	Rs. 4,09,078 in form 64
		Cart-loads.	361,523			

Annual Form No. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at sale depôts, for the year 1886-87.

District	Description of timber or produce	On hand at commencement of the year			On hand at end of the year			Difference in value		Remarks.
		Number.	Cubic feet	Value.	Number.	Cubic feet.	Value	In favor of the year.	Against the year.	
				RS.			RS	RS.	RS.	
Ganjam	Sál logs	9	102	101	274	2,906	1,454	1,353	..	
	Do. sleepers	2	7	1	492	7	830	529	..	
	Do slabs, &c.	52	..	6	1,687	..	100	94	..	Estimate
	Do poles		..	..	19	47	10	10	..	
	Piasál logs	1	4	2	5	44	25	23	..	
	Blackwood logs	6	63	9	4	28	19	10	..	
	Miscellaneous logs	57	980	569	264	3,531	883	314	..	
	Do planks and rafters	..	...	..	883	139	25	25	..	
	Ebony	..	..	..	5	32	32	32	..	
	Demarcation posts	..	..	..	2,038	..	127	127	..	
	Fuel	..	..	..	Tons 14	700	5	5	..	Do.
	Minor produce	..	..	..	Mds 903	..	113	113	..	
	Total ..	..	..	688	..	..	3,623	2,935	..	
Nellore	Miscellaneous poles and sleepers	831	843	261	121	122	38	..	223	
	Firewood	Tons 649	32,450	5,213	Tons 1,810	90,500	13,113	7,900	..	
	Rattans	Bndls. 21	..	115	Bndls. 21	..	121	6	..	
	Chey root	Mds 220	..	880	..	..	..	..	880	
	Suratichekka	..	..	..	Mds 82	..	210	210	..	
	Total ..	..	..	6,469	..	..	13,482	7,013	..	
Cuddapah	Redwood roots	Tons 3	150	50	Ton ½	12	5	..	45	
	Minor produce	Mds. 2	..	2	Mds. 2,364	..	1.373	1,371	..	
	Total ..	.	..	52	..	..	1,378	1,326	..	
Kurnool	Gallnuts B	..	..	..	Mds. 1,530	..	191	191	..	
	Total .	..	..	..	..	..	191	191	..	
Bellary	Minor produce	Mds 77 lb. ½	..	30	..	..	..	.	30	
	Total ..	..	..	30	.	..	..	..	30	

Abstract showing the value of timber and other produce at sale depôts, for the year 1886-87.—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year	Against the year.	
				RS.			RS.	RS.	RS.	
Anantapur	Teakwood spokes and felloes	108	15	19	..	..	..	..	19	
	Minor produce	Mds. 586	..	530	Mds. 1,938½	..	2,353	1,823	..	
	Total ..	..	..	549	..	..	2,353	1,804	..	
Nilgiris	Miscellaneous poles	260	..	48	..	..	..	..	48	
	Acacia planks and rafters	..	..	..	447	..	826	826	..	
	Firewood	Tons 442	..	2,776	Tons 499	..	3,238	462	..	
	Minor produce	Md. 1	..	1	..	..	..	..	..	
	Total ..	..	..	2,825	..	..	4,064	1,239	..	
	Grand total ..	..	..	10,613	..	..	25,091	14,478	..	

ANNUAL FORM No. 73-B.

Forest Department, Madras, Northern Circle.

Return of stores, tools, and plant on 1st April 1887.

District.	Description of stores, &c.	On hand at commencement of the year.		On hand at close of the year.		Difference in value.		Remarks.
		Number.	Value.	Number	Value.	In favor of the year	Against the year.	
			RS.		RS.	RS.	RS.	
Direction ..	Surveying and other instruments.	14	174	22	531	..	..	
	Furniture	60	572	71	882	..	..	
	Miscellaneous	..	..	3	39	..	..	
	Total ..	74	746	96	1,452	706	..	
Ganjam ..	Bungalow, head-quarters.	1	1,350	1	1,669	..	..	Russellkonda.
	Bungalow, inspection ..	4	750	4	750	..	..	Suradá.
	Inspection huts	12	585	12	585	..	..	
	Guards' sheds	3	20	3	20	..	..	
	Furniture	14	95	35	336	..	..	
	Tools	110	188	222	323	..	..	
	Surveying and other instruments.	10	128	27	198	..	..	
	Miscellaneous	1	8	1	8	..	..	
	Total ..	155	3,124	305	3,787	665	..	
Vizagapatam.	Sheds	2	45	2	45	..	..	
	Tools	5	2	5	2	..	..	
	Surveying and other instruments	7	95	17	162	..	..	
	Furniture	9	119	25	228	..	..	
	Total ..	23	261	49	437	176	..	
Godávari ..	Sheds	..	..	10	132	..	..	
	Surveying and other instruments.	7	40	21	155	..	..	
	Tools	1	5	312	252	..	..	
	Furniture	29	151	27	344	..	..	2. Unserviceable.
	Miscellaneous	..	..	35	83	..	..	
	Total ..	37	196	405	966	770	..	
Kistna ..	Surveying and other instruments.	13	..	16	192	..	..	
	Tools	385	21	246	145	..	..	
	Furniture	17	90	30	231	..	..	
	Total ..	415	111	292	568	457	..	
Nellore ..	Cash safes	4	195	4	210	..	..	
	Scales and weights, sets.	6	310	7	744	..	..	
	Furniture	99	363	97	567	..	..	
	Boxes	19	10	19	30	..	..	
	Tools	480	377	480	377	..	..	
	Surveying and other instruments	16	156	45	274	..	..	
	Miscellaneous	16	8	16	8	..	..	
	Tramway	2	13,800	3	15,574	..	..	
	Boats	6	2,380	6	2,514	..	..	
	Total ..	648	17,599	677	20,298	2,699	..	
Cuddapah ..	Bungalow, inspection ..	4	15,650	4	15,650	..	..	Kodur, Sanipaya, Balapalle and Horseleykonda.
	Ranger's house	3	1,020	4	1,620	..	..	Kodur, Sidhout, Rajampet and Badvél.
	Office house	1	200	1	200	..	..	Kodur.
	Sheds	58	960	61	1,085	..	..	
	Surveying and other instruments.	15	153	33	185	..	..	
	Tools	388	413	507	584	..	..	
	Furniture	59	580	59	580	..	..	
	Total ..	528	18,976	669	19,904	928	..	

Return of stores, tools, and plant on 1st April 1887

District	Description of stores, &c	On hand at commencement of the year		On hand at close of the year		Difference in value		Remarks
		Number	Value	Number	Value	In favor of the year	Against the year	
			RS		RS	RS	RS	
Kurnool	Bungalow head quarters	1	644	1	644	..		Value of Nandyal bungalow site
	Bungalow inspection	19	7 447	19	7 447			
	Rangers houses	4	1,476	4	1,476			
	Sheds	14	1 065	14	1 065			
	Furniture	30	162	30	162			
	Tools	348	500	368	614			
	Surveying and other instruments	16	206	26	214			
	Cash chest		..	1	8			
	Scales with weights			1	50			
	Total	432	11 500	459	11,680	180		
Bellary	Ranger's house	1	460	1	460	..		Sandúr
	Surveying and other instruments	2	67	17	125			
	Furniture	13	141	14	201			
	Tools	57	29	183	180			
	Scales with weights up to 500 lb		..	1	272			
	Total	73	697	216	1 238	541		
Anantapur	Bungalow	1	800	1	440			Collapsed
	Head quarters bungalow	..	..	1	6,469			
	Sheds	15	19	15	173			
	Surveying and other instruments	18	75	42	126			
	Furniture	17	157	35	357			
	Cash safe with padlock	1	12	1	12			
	Tools	103	138	144	147			
	Total	155	1,201	239	7 724	6 523		
Nilgiris	Sheds	22	942	26	3,232			
	Surveying and other instruments	11	69	35	341			
	Charcoal kiln	..		1	582		..	
	Furniture	27	276	42	584			
	Tools	493	1 106	621	1,500	..	..	
	Elephants	2	3 000	2	3,000	..		
	Do calf	1	500	1	500			
	Miscellaneous							
	Chains of elephants	8	240	8	240		..	
	Total	564	6 133	736	9,929	3,796		
	Grand Total	3,104	60 544	4,143	77,985	17,441		

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in the Northern Circle, during the year 1886-87.

PART I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.				Remarks
				RS.	A.	P.	
Nilgiris ..	1. Lakshmi.. ..	Transferred from the Anamalais during 1882 ..	April 1886	112	15	0	
	2. Chinna Lakshmi..		May ,, ...	123	15	0	
	3. Mahabaksh (calf).		June ,, ...	149	5	0	
			July ,, ...	136	2	0	
			August ,, ...	154	11	0	
			September ,, ...	138	11	0	
			October ,, ...	107	8	0	
			November ,, ...	53	10	0	
			December ,, ...	132	12	0	
			January 1887	110	0	0	
			February ,, ...	50	0	0	
			March ,, ...	* 213	10	0	
			Total ..	1,483	3	0	

* In the statement submitted to the Accountant-General the approximate expenditure for March given by District Forest-officer, *i.e.*, Rs 148-7-0 was adopted for striking average per head.

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	Remarks.

Nilgiris—*Nil.*

PART III.

Elephants gone off the list during the year.

District.	Names	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.

Nilgiris—*Nil.*

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 26th October 1887, Forest No. 604 :—

J. H. GARSTIN, ESQ., C.S.I.

Read—the following letter from Lieutenant-Colonel I. CAMPBELL WALKER, Conservator of Forests, in charge of Southern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 28th July 1887, No. 1074 :—

I have the honor to submit the Annual Administration Report for the Southern Circle for the year 1886-87, together with the prescribed returns, and to request that the proof may be sent to me for correction.

2. I regret to have to state that not a single district report was received on the due date, the first being that from North Arcot, received on the 16th May or only one day late, and the last that from South Canara, which did not reach me till the 8th June.

Of the others, which were more than a week late, I must specify Coimbatore, both South and North, and Madura, which reached me on the 26th and 31st May. Supplemental statements and returns continued to be received up to the first week in July. The time allowed for checking and compiling the voluminous returns in my office and writing the report for the Circle is only two months, and if district reports are late, mine will naturally be the same.

3. The remarks in paragraph 3 of my covering letter to last year's report again apply in the case of most districts, although District Forest-officers were supplied with copies of last year's report and the returns in March 1887, which was fortunate, considering that the report is not yet finally published and distributed with the Government order thereon.

4. I request that 20 copies of this year's report and returns, with the Board's review, may be supplied as last year.

ENCLOSURE.—Administration Report for 1886-87.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 8th August 1887, No. 853 :—

I have the honor to submit the annual report of forest operations in the Northern Circle for 1886-87, and to request the favor of your directing the proofs to be sent to me for correction.

2. I regret the delay in the submission, which is due to the very late receipt of the district reports and statements, especially that of Nellore which reached my office only on the 18th July, three days after my own report was due. Several other reports were late, and several returns had to be sent back for correction.

ENCLOSURE.—Administration Report for 1886-87.

Resolution—dated 26th October 1887, Forest No. 604.

The Board resolve to submit to Government their review of the forest reports of the Northern and Southern Circles for the year 1886-87.

2. The establishment for the Presidency consisted of the following officers:—

Conservators	2
Deputy Conservators	13
Assistant Conservators	12
Sub-Assistant Conservators	12
Rangers	50
Foresters	114
Guards	693

The average charge of District Forest-officer, in the Southern Circle, is about 4,700 square miles; the figure is not given for the Northern Circle. The average area of each range charge in the Southern Circle is about 1,019 square miles, of which 115 miles are actual forest. The ranges in the Northern Circle seem to be much smaller, but the Conservator is not able yet to give accurate information on the point.

3. The gross receipts of the department amounted to Rs. 12,46,783, and the expenditure to Rs. 11,55,687, leaving a balance of Rs. 91,096 on the year's work. The financial working of the year will be considered later on in the review.

4. The following table gives the necessary information regarding the changes in area made in the different classes of forests under the control of the Forest Department during the year:—

—	Area on 31st March 1886.	Added.	Excluded.	Area on 31st March 1887.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
A. Reserved forests under Act V of 1882.	1,628	685	1	2,312
B. Forests reserved under previous rules.	1,109	1	43	1,067
C. Leased forests	198	..	..	198
D. Reserved lands	7,060	1,085	653	7,492
E Other forests	1,126	21	48	1,099
Total ..	11,121	1,792	745	12,168

The explanation given in paragraph 11, Northern Conservator's report, for the difference of one mile in the area of reserved lands, seems incorrect; the error is in appendix 59-C, where 116,277 acres against Bellary have been converted into 183 square miles instead of 182 square miles, 182 being above the actuals 181·6. The total area under forest control increased during the year by 1,047 square miles, viz., by 637 in the Northern Circle and 410 in the Southern Circle. In the Northern Circle 328 square miles of reserved lands were notified under section 16 of the Act and 313 square miles in the Southern Circle. This compares favorably with the work of the previous year, when only 124 square miles of reserved lands were declared reserved forests under section 16. Under section 4 of the Act 1,548½ square miles of land were notified, viz., 427 in the Southern Circle and 1,121½ in the Northern Circle. The total area of reserved forests under Act V of 1882 was 2,312 square miles compared with 1,628 square miles, the area of the previous year. The following were the areas under each class of forests in the two circles at the close of the year:—

—	Reserved forests.	Reserved lands.	Leased and other forests.
	SQ. MLS.	SQ. MLS.	SQ. MLS.
Northern Circle	474	3,837	985
Southern do.	1,838	3,655	1,379
Total ...	2,312	7,492	2,364

The Conservator, Southern Circle, observes that 114 square miles, which do not appear in the above areas, were notified as reserved forests before the close of the year, but as the date from which the notification took effect was not within the year under report, the area has been omitted.

5. The areas proposed for reservation under section 4 of the Act but not yet reserved amounted to 1,744·12 square miles in the Southern Circle, and out of the area the settlement of 1,015·85 square miles was almost complete. In the Northern Circle there remained an area containing 6,240½ square miles, which has been notified under section 4 of the Act, and in which the settlement has not yet been completed. In the Northern Circle the settlement work made good progress in Cuddapah, Bellary, Kurnool and Godávari, and but slow progress in Ganjam and Anantapur. Taking districts separately, the following table shows the advance made up to date :—

	Northern Circle.			Southern Circle.	
	Forests reserved under section 16	Forests notified under section 4.		Forests reserved under section 16	Forests notified under section 4.
	SQ. MLS.	SQ. MLS		SQ. MLS.	SQ. MLS.
Nellore	·50	473½	Chingleput	63·96	35 04
Cuddapah	272·00	1,573	North Arcot	194·61	173·63
Anantapur	13·50	157½	South Arcot	2·75	216·52
Nílgiris	188·00	120½	Salem	171·96	532 97
Ganjam	..	704	Trichinopoly	31·41	139 74
Godávari	..	647	Tanjore	.	6·56
Kistna	..	690	Coimbatore	664·60	..
Kurnool	..	1,677	Madura	286·98	95 00
Bellary	..	198	Tinnevelly	286·81	269·70
			Malabar	134·00	166·80
			South Canara	1·38	108·16
Total	474·00	6,240½	Total	1,838·46	1,744·12

From the above table it will be seen that settlement work is backward in the Northern Circle, while it is well advanced in the Southern Circle. The progress of settlement in the current year is likely to be more rapid than it has hitherto been. Large areas will probably be finally settled in Kurnool, Bellary and Nellore during this year.

6. *Village forests.*—Little has been done during the year in connection with village forests. The reports received from Collectors on the proposals on the subject were submitted to Government with Board's Proceedings, dated 29th April 1887, Forest No. 235. The Board in those Proceedings made revised proposals on the subject and the orders of Government are awaited on them. Nothing has been lost by the matter having stood over, as the Forest Department has been thus able to give more time to the formation of reserved forests, the making of preliminary working-plans and other more immediately important operations.

7. *Reserved lands.*—The area of reserved lands includes areas which are in progress of settlement as reserved forests and areas which have been declared reserved under the rules framed under section 26 of the Act. The Board have, in their Proceedings regarding village forests, expressed themselves in favor of the elimination of the class of reserved lands and the division of all waste land into either reserved forest or unreserved lands. The total area of reserved lands in the Southern Circle was 3,655 square miles and in the Northern Circle 3,837 square miles. In the report from the Northern Circle, however, some of the lands notified under section 4 and included in the 6,000 and odd acres awaiting settlement have not been included in the above area of reserved lands. As all lands notified for reservation are now placed under the rules under section 26 of the Act, under a standing order of the Board, the area of reserved lands should include all the areas notified for settlement. This is apparently the case in the report of the Southern Circle.

8. The expenditure during the year on demarcation, compensation and on survey and working-plans was—

	Northern Circle.		Southern Circle.	
	1885-86.	1886-87.	1885-86.	1886-87.
	RS	RS.	RS.	RS.
Demarcation .	13,060	19,545	9,728	8,761
Compensation ...	1,505	2,954	1,081	19,829
Survey and working plans	39	800	1,068	2,727
Total	14,604	23,299	11,877	31,317

The expenditure in the Southern Circle on compensation was chiefly in connection with the new reserved forests in Salem, where several holders of trees on tree pattas were of necessity bought out. Compensation was also paid in connection with the new timber depôt at Calicut. In some districts it is to be expected that considerable sums will necessarily be spent in compensation in connection with the settlement of reserves.

9. *Demarcation.*—In the Northern Circle 1,190 miles were demarcated and 7,207 posts erected, the cost being Rs. 19,158; in the Southern Circle 1,134 miles were demarcated at a cost of Rs. 8,735. The cost per mile in the Northern Circle was Rs. 16-1-7 and in the Southern Circle Rs. 7-11-3. The chief work in the Northern Circle was done in Ganjam, Godávari, Cuddapah, Bellary and on the Nílgiris, and in the Southern Circle in Malabar, Salem, Coimbatore, South Canara and South Arcot as far as the length of line demarcated is concerned, but owing to the work in some cases being merely preliminary and not thoroughly finished off, the actual expenditure was not greatest in those districts, but in Chingleput, Salem, Madura, Coimbatore and Malabar, where the best work was done. The rates at which the work was done as usual vary very much. The rate in Cuddapah was very high, owing to the large number of posts used and the same cause raised the expenditure on the Nílgiris. The rates in the Northern Circle were in almost every case higher than those charged in the Southern Circle, and if the work is equally efficiently done in both circles, there should not be this difference. The attention of the Conservators is drawn to the matter. No doubt the nature of the tract of country demarcated accounts for the difference in the rates in different parts of the same district, but taking each circle as a whole, there seems no reason why the rates should differ so much. The figures of the Northern Circle given in the body of the report differ from the figures given in the appendices; the latter are the audited figures which are correct.

10. In the Northern Circle, survey work does not appear to have been carried on except in Ganjam, where the surveys of nine reserves were completed. On the Nílgiris the village maps already in existence have answered the purpose of forest surveys, and no forest survey on a larger scale is there necessary. The Conservator, Southern Circle, reports that the survey party under the Surveyor-General, Calcutta, began operations in Madura, but not much appears yet to have been done. Some departmental forest survey work was done in Chingleput, Coimbatore and Trichinopoly. A Forest Atlas composed of maps prepared by the Revenue Survey Department is under preparation. It will be useful in showing at once the position of all the forests under the control of the department, their areas and the class to which they belong. Ultimately it is intended to compile a District Forest Altlas for each district which will consist of a collection of carefully drawn plans of all the State forests in the district on a larger scale; but this will be a work of time.

11. *Working-plans.*—In the Northern Circle, the subject of working-plans received considerable attention. As regards the Nílgiri forests, the whole subject was exhaustively discussed in a note by Mr. Gamble. The Acting Conservator now gives the results of the year's work in those forests in Bellary, Cuddapah and the

Nílgiris, which are worked under working-plans. The Board have already submitted Mr. Gamble's note to Government with their views on the advisability of adopting his methods of working in the sholahs on the Nílgiris. The Government have since concurred with the Board in considering it doubtful whether Mr. Gamble's plan is suitable. The effect of the system advocated should be carefully watched. It may be hoped that by the close of the current year a considerable advance will have been made in the preparation of working-plans for the forests on the plains.

12. In the Southern Circle, three preliminary working-plans were approved of during the year. They were, however, for small areas. Several other plans were in preparation and considerable progress will be made in the matter during the current year. The preparation of the plans takes a considerable time at present, partly from the inexperience of most of the Forest-officers in the subject and partly from the want of maps. The Board observe that Mr. Peet, the Acting Conservator, agrees with Mr. Gamble in considering that, for some years to come, no special working-plan party will be necessary in this Presidency. The Southern Circle Conservator reports that information regarding the number and dimensions of the sandalwood trees on the Javadi hills is being collected. These trees are numerous and form a very valuable property.

13. *Fire protection.*—The following statement gives the areas protected from fire in each circle and the amount of expenditure :—

—	Area attempted.	Burnt.	Expenditure.	Cost up to end of year.	Since when protected.
	SQ. MILES.	SQ. MILES.	RS.	RS.	
Ganjam	72·0	1·20	277	1,060	1885
Godávari	78·7	Nil	Nil	Nil	1887
Kistna	36·0	·60	743	2,302	1884, 1885
Nellore	89·6	3·60	135	265	1885
Cuddapah	313·5	74·00	3,389	17,330	1871—1887
Kurnool	22·6	Nil.	Nil	2,480	1884—1887
Bellary	268·0	64·60	2,539	7,568	1883
Anantapur	74·5	7·90	1,357	4,036	1884—1886
Nílgiris	213·2	·39	3,428	8,133	1883—1886
	1,168·1	152·29	* 11,908	43,174	..
Chingleput	11·4	Nil	386	1,883	1883—1884
North Arcot	408·5	3·8	1,917	11,028	1874—1886
South Arcot	121 5	22·2	1,224	3,190	1877—1886
Salem	48·4	·47	2,561	10,166	1881—1885
Trichinopoly	26·5	·09	189	973	1885—1886
Coimbatore (North)	3·6	..	297	699	1879—1886
Do. (South)	22·3	·5	790	4,031	1882—1885
Madura	243·8	9·5	4,724	14,068	1882—1887
Tinnevelly	62·2 + 16 miles	1 3	2,320	4,732	1884—1887
Malabar (Wynaad and Pálghat)	47·8	·47	1,283	6,561	1873—1885
Do. (Nílambúr)	14·7	Nil	732	2,353	1842—1885
South Canara	10·3	·13	388	631	1882—1887
	1,081·0 + 16 miles.	38·46	16,811	60,315	..

* Given as Rs. 12,133 in form 64.

The Conservator, Northern Circle, does not furnish any information regarding the area that escaped fire without special protection.

14. In the Northern Circle out of the area attempted, 489·4 square miles were under special protection and 678·9 miles under ordinary protection. The area under special protection shows a small decrease compared with the area protected in the previous year. The area under ordinary staff was, however, very much larger than in the year before. The protection of the specially-protected area did not show such good results as in the previous year. Fires occurred in 83·8 square miles compared with 22·7 miles in the year before. The amount expended on special establishments in 1885-86 was Rs. 5,106, compared with Rs. 10,216, the expenditure in the year under report. There was a great increase in the number of watchers entertained.

15. In the Southern Circle in 1885-86, 906·08 square miles were attempted compared with 1081·6 in the year under report. Fires occurred in 38·8 square miles

of forest compared with 15·1 square miles in the previous year. The expenditure was Rs. 16,811 compared with Rs. 11,482 in 1885-86.

16. In the Northern Circle, the chief destruction occurred in Cuddapah and Bellary. In Nellore, an undefined boundary was a difficulty; and in Godávari, the Conservator reports that the Koyas (the local jungle tribe) would not come forward to act as watchers. In the Southern Circle, considerable progress was made in increasing the area under protection; fires were, however, heavy in South and North Arcot and Madura. It must be remembered that the north-east monsoon ceased last year before the ordinary date, and many districts suffered from excessive dryness very early in the year. The cost of protection was moderate, but until the work is more thoroughly organized, there is little use in comparing the results of one year with another.

17. *Grazing.*—The following table shows the receipts from grazing in each district:—

	Southern Circle. Rs.		Northern Circle. Rs.
Chingleput	641	Ganjam	5
North Arcot	1,423	Godávari	971
South Arcot	1,306	Kistna	37,927
Salem	24	Nellore	4,683
Trichinopoly	2,328	Cuddapah	174
Tanjore	414	Kurnool	1,109
North Coimbatore	22,465	Bellary	337
South Coimbatore	5,242	Anantapur	6
Madura	1,392	Nílgiris	326
Tinnevelly	313		
Malabar	117		
Total ...	35,665	Total ...	45,538

The practice with regard to grazing varies very much from district to district. In Kistna the revenue from grazing far exceeded that of any other district. It has there been the custom for many years to lease out the right of grazing. In North Coimbatore grazing fees were imposed, but the rates there were found too high and were reduced by the order of Government. The Board concur with Colonel Walker in his views as to the necessity of putting all grazing on the lower slopes of the steep hills in South Coimbatore under control, and recent proposals with regard to the same subject in North Coimbatore have been made to Government in connection with the working-plans of the forests in the Bolampatti valley.

18. The Conservator, Northern Circle, reports that as much as 15,000 head-loads of grass were removed from the Muchukota Forest in Anantapur, and the careful reservation of that forest must have already proved of great value to the neighbouring villages, the tract being one of the most arid in the Presidency. In Salem and Cuddapah, no fees were levied during the year. The question of grazing still causes considerable difficulty, and some years of management and experience must pass before it can be satisfactorily settled. The present system of managing each district according to local requirements is probably for the present the best. The aim should be the gradual control of all grazing in reserved lands and forests by the Forest Department, as pointed out by the Government of India in paragraph 13 of their review on the administration report of the previous year. This control is gradually extending and when it is remembered that up to within a very few years ago control in this matter was almost unknown in the Presidency, it cannot be wondered at that the ryots are impatient of it still. Considerable caution must be used in making progress in this matter if widespread discontent is not to be aroused. The ultimate object is to have all grazing in Government forests restricted and made subject to a reasonable tax, and the result will probably be a reduction in the number of undersized, underbred and diseased animals now so common, an object desired by the Government of India. Progress, however, must be slow, and it is to be remembered that the result can only be obtained by an alteration in the ingrained habits of the whole agricultural population.

19. *Police.*—The prosecutions in connection with forest offences and their disposal are compared in the following statement with the results of previous years :—

—	Pending from 1885-86.	In the year.	Total.	Convictions.		Acquittals.		Compounded.		Total.	
				Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.
Southern Circle..	94	1,339	1,433	574	1,231	243	748	460	775	1,277	2,754
Northern do. ..	66	994	1,060	*546	1,364	300	991	111	250	957	2,605
Total ..	160	2,333	2,493	1,120	2,595	543	1,739	571	1,025	2,234	5,359

* In Form No. 63 of the Northern Circle, it is shown as 657, which is incorrect, and apparently includes the number ases compounded.

Pending.	Percentage of convictions to total disposed of	Percentage of compounded cases to total disposed of.
156	44·9	36·1
103	57·05	11·6

Compared with past years the results were as follows :—

—	Cases.	Convicted.	Acquitted.
1884-85	1,876	1,115	475
1885-86	2,269	1,280	832
1886-87	2,493	1,120	543

The results on the whole were satisfactory. The power of compounding is more freely used in the Southern than in Northern Circle, and this accounts for the small percentage of conviction to total cases. The amount of compensation realised in the Southern Circle was Rs. 2,350 and Rs. 455 in the Northern Circle. The average amount for each case was Rs. 4-2-0 in the Northern Circle and Rs. 5-2-0 in the Southern Circle.

20. *Roads and Buildings.*—In the Southern Circle 62½ miles of new roads were made at the cost of Rs. 6,244 and 108¼ miles of road were repaired at the total cost of Rs. 3,280. The total expenditure was Rs. 9,524. In the Northern Circle, Rs. 11,219 were spent on roads and bridges. Two roads of about six miles in Ganjam, one of about five miles in Cuddapah and two roads on the Nílgiris, besides several bridle-paths, were completed. The total expenditure of both circles was Rs. 20,743 compared with Rs. 9,479 in the previous year. On buildings in the Southern Circle Rs. 15,443 were spent and Rs. 14,461 in the Northern Circle, making a total of Rs. 29,904 compared with Rs. 23,036 in the previous year. The work done was apparently fairly satisfactory. In South Coimbatore two bungalows were built for the District Forest-officer and three rest-houses in North Coimbatore. In Cuddapah an inspection house and two Range-officers' houses were built, and the head-quarter bungalow at Anantapur completed and a rest-house at Kullar.

21. *Natural reproduction.*—The reports as regards natural reproduction are generally favorable. In the Northern Circle the growth in the Sandúr forests is reported good, and it is so almost everywhere except in the Anantapur forests where the Acting Conservator seems to think that the cutting of the grass may be the cause of the seedlings (*Hardwickia binata*) dying down. If so, it would be best to close certain areas altogether for a sufficient number of years to enable the seedlings to grow to a sufficient height not to need the covering. In the Southern Circle the results seem to be almost uniformly favorable, and the results of reservation are proving very encouraging. The Conservator reports that the following trees, *Anogeissus latifolia*, *Dalbergia latifolia* and *Pterocarpus marsupium* reproduce themselves plentifully by seedlings. The natural growth of the valuable timber *Pterocarpus santalinum* in Chingleput is again reported to be good.

22. *Artificial reproduction.*—The areas under regular plantations in the two circles were as follows :—

	ACS.	Cost of addition and maintenance. RS.
Northern Circle	6,423½	9,191
Southern do.	11,786	29,275
Total ...	18,209½	38,466

The areas practically do not differ from those given in last year's report. The areas under cultural operations were :—

—	1886-87.	1885-86.	Cost of addition made.
	ACS.	ACS.	RS.
Northern Circle	878½	751½	1,662
Southern do.	2,972½	2,536	3,634

In the Northern Circle the cyclone of the autumn of 1886 did considerable damage in Nellore, killing almost half a lakh of casuarina plants and some valuable iron wood seedlings. The mahogany plants also suffered. Palmyra seeds were planted in Cuddapah. A considerable number of blue gums were planted on the Nílgiris and the growth was good. Over 7,000 mahogany plants were put out in Kullar reserve and are reported to be doing well.

23. The casuarina plantations in Nellore are estimated to have cost Rs. 1,70,000 up to date and to have given an approximate return of Rs. 51,746. The return in the year was Rs. 18,455. The plantations on the Nílgiris show a surplus up to date of receipts over expenditure of Rs. 18,078 (not 18,058 as given in the report).

24. In the Southern Circle the management of the plantations showed greater economy to have been practised than in the previous year. In Nilambúr 123,787 teak, with 6,472 mahogany seedlings, were planted out during the year; 75,000 palmyra seeds were planted in Tinnevelly, and 23 acres were sown with *Acacia planifrons.* Insects are reported to have done much damage to the mahogany plants and the *Ficus elastica* on the West Coast. The work on the whole was successful.

25. *Topes.*—The Conservator, Northern Circle, is still unable to supply reliable information regarding the topes in his circle. The statement appended to the report shows their area as 12,654 acres and their number as 363. The reduction in the area compared with that given in the returns of the previous year is due to correction of figures made during the year. In the Southern Circle the number of topes at the end of the year was 1,284 and the area 18,909 acres. The figures relating to some of the districts were revised during the year. The correction of the returns is, however, not easy and must occupy a considerable time. The total expenditure on cultural operations, plantations and topes during the year was for the Southern Circle Rs. 40,830 and for the Northern Circle Rs. 23,890. The latter figure taken from Form No. 64 differs from the total of Forms Nos. 60 and 61, that total being Rs. 14,292. The Conservator should explain the difference. The total expenditure on the improvement of the forests was—

—	1883-84.	1884-85.	1885-86.	1886-87.
	RS.	RS.	RS.	RS.
Sowing and planting	65,326	70,423	63,244	64,721
Fire-protection	11,223	18,945	25,467	28,956
Other works	36,793	22,306	25,302	27,979
Total ...	1,13,342	1,11,674	1,14,013	1,21,656

26. Colonel Walker has misunderstood the Board's orders as regards the responsibility of village heads for the safe keeping of topes. The latter half of the Proceedings of the Board on the subject (Board's Proceedings, dated 15th April 1887, Forest No. 198), was as follows:—

"There is no objection to the topes alluded to (those established but not yet in bearing) being left under the general care of village officers, but the maintenance of the trees and fences must rest with the District Forest-officer and his subordinates, and as the Conservator suggests that they should be frequently inspected by the District Forest-officer and the Range-officers and reported on in the weekly diaries, the supervision should be constant and efficient. Where a village head is willing to undertake the responsibility of looking after the trees and fences of a tope for one rupee a month he may do so, but the duty is not to be forced on him."

It has never been part of the duty of village officers to look after topes in the sense meant by Colonel Walker. These officers have been held responsible for seeing that no acts of wanton mischief and theft occurred, but nothing more. The Conservator desired that they should be held responsible for the fences and the good condition of the young trees in all the topes situated within the village boundaries, which are often a considerable distance from the village, and it was to this that the Board raised objection.

27. *Exotics.*—The Conservator, Southern Circle, has appended to his report an interesting paper on the experiments tried with many exotic plants during the year. The experiments with the date-palm were fairly successful, 517 offsets having been put down. In Tanjore some Persian date-palms put down seven years go have borne fruit. The experiments with the mahogany plants continue to answer well. The rubber plants on the West Coast do not seem very successful, the sap yielded being in very small quantities. It is, however, as yet too early to speak positively on the subject. In the Northern Circle, mahogany seeds and date-palm offsets were put down. The date-palm offsets do not appear to have done well, and in Nellore only 100 plants germinated out of 500 which were put down. The Conifers and Australian Acacias on the Nílgiris did well. On the West Coast the valuable Ipecacuanha plants continue to thrive.

28. *Yield and working of the forests.*—It is still very difficult to compare the yield and working of two circles owing to the variety of measures used to give the outturn. The Conservators have used maunds, cubic feet and tons. Before the next reports are written the Conservators must agree to show each kind of produce according to some common denomination, that of cubic feet being used where possible. The figures given by the Northern Circle do not appear to have been carefully scrutinized, and in the remark column of Form 72 several differences between the timber returns and financial returns are noticed, but are not cleared up. Similar differences occur between the return 71 and the financial return 64. The amount of the sales and the actual revenue collected during the year under each of the budget sub-heads of I should be given in abstract at the close of Form No. 71 as is done in the case of the Southern Circle. The Conservator, Northern Circle, is requested to work out correct figures and submit them. Taking departmental operations first: In the Northern Circle 19,657 trees were felled compared with 8,157 in the Southern Circle. In the Northern Circle less timber was collected than in the previous year, the figures being for 1884-85 cubic feet 238,317, for 1885-86, 86,326 and for 1886-87, 52,530. This was due to reduced demand in Ganjam and want of elephants for work in the Godávari. In the Southern Circle the timber collected was considerably in excess of what was collected in the year before, the figures being—

	1885-86.	1886-87.
	C. FT.	C. FT.
Teak	83,713	105,797
Blackwood	5,730	19,613
Miscellaneous	57,660	51,522

The amount of fuel collected increased in both circles, the Northern Circle showing 1,202,092 cubic feet or about 24,000 tons compared with 12,251 tons in the Southern

Circle, the figures of the previous year being for the Northern Circle nearly 16,000 tons and the Southern Circle 10,113 tons.

29. With regard to the receipts and issues of timber and forest produce, the amount received in the depôt appears to have been about 16,049 tons and the amount issued about 11,687 tons. The quantity of timber received in the Northern Circle was less than in the previous year, but, on the other hand, the quantity of minor produce received increased very largely in both circles.

30. The sales from depôts and the forests showed a falling off in both circles, the total receipts being as follows :—

	1885-86.	1886-87.
	RS.	RS.
Northern Circle	1,60,687	1,36,867
Southern do.	2,01,994	1,35,177
Total ...	3,62,681	2,72,044

The falling off in the Northern Circle was in the sales of timber in Ganjam, and in the Southern Circle a large number of teak saplings were left unsold owing to a suspected combination among the dealers. There was also a falling off in the sandal-wood sales. In consequence of the falling off in the sales, the value of the stock in depôts was at the close of the year Rs. 90,018 compared with Rs. 26,632, the value of stock on hand at the commencement of the year. The South Indian and Madras Railways were supplied with 3,849 tons of wood from the Southern Circle during the year.

31. The amount actually realized from sales to persons who removed the timber and other produce from the forests themselves was Rs. 4,09,078 in the Northern Circle and Rs. 5,40,115 in the Southern Circle compared with Rs. 3,68,855 and Rs. 4,38,948, the corresponding figures for last year.

32. In Vizagapatam a large amount of firewood was granted free, probably some 5,000 cart-loads; in Cuddapah 185 tons of timber were given away to the ryots for house-building. In the Southern Circle not much timber was granted from the reserved forests, but, as pointed out by the Conservator, the greater portion of the wood required for domestic use is still obtained free from the unreserved lands.

33. *Financial.*—The following statement shows the financial results of the year's working :—

—	Revenue.	Expenditure.	
		A.	B.
	RS.	RS.	RS.
Northern Circle	5,52,248	2,20,443	2,14,523
Southern do.	6,94,535	3,80,192	3,40,529
Total ...	12,46,783	6,00,635 5,55,052	5,55,052
Total ...	...	11,55,687	
Balance ...	...	91,096	
Total ...	...	12,46,783	

The balance amounted to Rs. 1,17,282 in favor of the Northern Circle and Rs. 26,186 against the Southern Circle. The following statement shows the comparison between the expenditure under each main head in 1885-86 and 1886-87 :—

—	Charges.		
	1885-86	1886-87.	Difference.
Northern Circle.	RS.	RS.	RS.
A	1,88,930	2,20,443	+ 31,513
B	2,12,887	2,14,523	+ 1,636
Total .	4,01,817	4,34,966	+ 33,149
Southern Circle.			
A	2,34,006	3,80,192	+ 1,46,186
B	3,00,608	3,40,529	+ 39,921
Total ...	5,34,614	7,20,721	+ 1,86,107

The following statement compares the receipts and charges of the two circles during the past six years :—

—	Receipts	Charges.	Surplus.
	RS.	RS.	RS.
1881-82	8,05,884	6,03,069	2,02,815
1882-83	9,03,914	6,36,558	2,67,356
1883-84	9,58,991	7,80,916	1,78,075
1884-85	11,62,689	8,84,421	2,78,268
1885-86	11,98,600	9,36,431	2,62,169
1886-87	12,46,783	11,55,687	91,096

The difference in the receipts of the Northern Circle compared with the actuals of the previous year resulted chiefly from reduced collection on account of timber due to slack timber trade in Ganjam, want of elephants in Godávari with which to get the timber out of the forests, and diminished sales of firewood and charcoal in Cuddapah. These were more than compensated for by increased receipts under the head Minor produce from Kistna, Bellary, Nellore and Anantapur, a greater revenue from sandalwood, sale of bamboos and grazing fees, the whole result being an increase of Rs. 5,966.

The increase in the receipts of the Southern Circle compared with the receipts of 1885-86 amounted to Rs. 42,217. The total decrease was Rs. 81,000 in Salem, Wynaad and Nilambúr. In Salem the decrease was due to smaller sales of sandalwood. In Malabar to reduced sales of timber, which also affected the revenue at Nilambúr. Trichinopoly, North Coimbatore, South Canara and Madúra showed large increases of revenue.

34. The increased expenditure in the Northern Circle was due under A to large payments to a contractor in Kurnool for cutting and stacking fuel for the railway there, to increased expenditure on roads, and to heavy charges incurred on account of demarcation. In the Southern Circle the increased expenditure occurred, under A, under all heads. The revision of the Tekadi forest lease involved a payment of Rs. 75,000 to the Nambidi of Kolangód, in the absence of which the year would have closed

with a surplus balance in favor of the Southern Circle amounting to about Rs. 50,000. The Board regret to notice that the budget estimates proved so untrustworthy in both circles. It is difficult to frame accurate estimates in the cases of timber and sandal-wood sales, but greater care might certainly have been exercised in the working of the year in this respect. The Conservator, Southern Circle, asks the Board to impress upon Collectors and District Forest-officers their duties in this respect, but they observe that the two Conservators are the responsible officers for seeing that the District Forest-officers work properly up to their estimates, which are passed and submitted by the Conservators themselves, and for the carrying out of which they are immediately responsible. The District Forest-officers are no doubt much to blame in the matter, but if they are not constantly and carefully looked after by the two Conservators, the finances of the two circles will never be satisfactorily managed. Colonel Walker misunderstands his position in this respect.

35. *General Remarks.*—Upon the whole the working of the year was successful. The weak points in the department are the paucity of experienced and trained officers and the want of system in working the forests in some districts alluded to above. The conduct of the establishments was on the whole good, though the Conservator, Southern Circle, finds reason to complain of the want of thoroughness in the inspection of Range offices and depôts by District Forest-officers. The Northern Circle Conservator, Mr. Gamble, inspected during the year Godávari, Kistna, Cuddapah, Kurnool, Anantapur and the Nílgiris. His inspections were very thorough, and his inspection notes on Kistna and Kurnool and his note on the Nílgiri forests are full of interest. Colonel Walker inspected every district in his circle during the year. The District Forest-officers spent a sufficient portion of the year on tour, and as a rule showed great interest in their work. The year was not a healthy one and the superior and subordinate establishments suffered much from fever. The Board know nothing of the proposals referred to in the last paragraph of Colonel Walker's report, as no such proposals have been submitted to Government by him through them, and do not understand what obstacles he refers to, which, he says, prevent Forest-officers of all classes from devoting their whole time to their proper professional duties in the forests. The Board's attention has never been drawn to existence of any such obstacles, and they believe there is nothing in the present system which prevents any District Forest-officer from devoting his whole time and attention to his proper professional duties.

36. The Board regret the delay which has occurred in the submission of this review. The report of the Northern Conservator reached the Board in manuscript on the 12th August 1887 and the Southern Circle report, also in manuscript, reached the Board on 1st August 1887. Both Conservators asked that the proofs of the statements and reports should be sent to them for correction. The final proof from the Southern Circle reached the Board on the 27th September and from the Northern Circle on the 11th October. The Board fear that the statements of the Northern Circle must have been carelessly prepared at first and thus required considerable correction when in proof. From next year the Conservators should themselves print their reports before submission to the Board. The report of the Northern Circle contains many discrepancies, which should have been avoided. In Form No. 59 C, 3,840 acres are shown against Kottakota forest in Anantapur as transferred to 59 A, while in 59 A, 5,120 acres are shown. The difference should have been explained. Similarly in the case of Cuddapah 161,280 acres are shown as transferred to 59 A against Seshachellam and Rollamadugu, but in 59 A apparently only 128,000 are shown. In the fire-protection area statements similar unexplained discrepancies occur. Thus in Cuddapah 202,116 acres are shown as having been attempted to be protected and 154,583 acres saved, while according to Form No. 62 the area attempted was acres 200,668 and saved 153,189. There are also discrepancies between the figures given in Form No. 69 and those in Form No. 71. Thus in Bellary (Form No. 69) 2,533 tons of firewood are entered as sold, while in Form No. 71 they are shown as 1,657, and the difference is unexplained. All these differences should have been noted and explanations given. There are also other

similar discrepancies which show that insufficient attention has been paid to the drafting of the report.

(True Copies and Extract.)

(Signed) R. S. BENSON,
for Acting Secretary.

To the Secretary to Government, Revenue Department,
with two reports and a map (to be returned).
Copy to the Conservator of Forests, Southern Circle.
" " " Northern "
" to all Collectors.
" to the Examiner of Forest Accounts.

ORDER—dated 16th January 1888, No. 51, Revenue.

Forest, No. 6.

His Excellency the Governor in Council notices with satisfaction that the Board of Revenue have submitted the Forest Administration Report for 1886-87, together with their review thereof, at a much earlier date than that for the previous year. It was, however, still more than two months late, and it is observed that although the Board's Resolution is dated 26th October, it did not reach Government until the 21st November, although the whole of the report itself was already in print. The delay in the despatch of the Conservators' reports is ascribed to the want of punctuality in the submission of the district reports. The worst offender in this respect was the District Forest-officer of Nellore, and the Collector should be called upon for an explanation. It appears from paragraph 3 of Colonel Walker's letter, that there has again been great delay in the distribution of last year's report to District officers. The Government desire to be informed of the causes of this.

The reports of both Conservators are shorter than those for the previous year, but it seems to the Government that Mr. Peet has sacrificed rather too much to brevity by the omission of all criticism. Mr. Peet was not in charge of the circle during the year to which his report relates, and he may perhaps have felt diffidence in offering remarks upon the work of its officers.

2. *Reservation.*—The following statement exhibits, in the form required by the Government of India, the changes that took place during the year in the areas of the various classes of State forests :—

Class of forests.	Area on 31st March 1886.	Added during the year	Excluded during the year.	Difference.	Area on 31st March 1887	Source or cause of Increase or Decrease
I Southern Circle.	SQ. MILES.	SQ. MILES.	SQ MILES.	SQ. MILES.	SQ. MILES.	
A. Reserved forest, under Act V.	1,526	313	1	+ 312	1,838	313 square miles from D, 1 square mile due to rectification of area by actual survey.
B. Reserved forests under previous rules	307	1	28	— 27	280	27 square miles to D, 1 square mile to F. Addition of 1 square mile probably due to rectification of area.
C Leased forests ..	49	..	..	..	49	
D. Reserved lands ..	3,503	477	325	+ 152	3,655	27 square miles from B, 391 from F, 42 from E, due to correction 17 square miles. 313 to A, 10 to F, and 2 square miles due to rectification of areas.
E. Other forests	1,126	21	48	— 27	1,099	Addition of 21 square miles due to correction of areas, 42 square miles to D and 6 square miles due to correction of area
F. Unclassed forests and waste lands.	..	..	..	..	..	
	6,511	812	402	+ 410	6,921	

Class of forests	Area on 31st March 1886.	Added during the year	Excluded during the year	Difference.	Area on 31st March 1887	Source or cause of Increase or Decrease
II Northern Circle	SQ MILES	SQ MILES	SQ MILES	SQ MILES	SQ MILES	
A Reserved forests under Act V	102	372	..	+ 372	474	15 square miles from B, 328 from D and 29 from F
B Reserved forests under previous rules	802		15	— 15	787	15 square miles to A
C Leased forests ..	198	..	..		198	
D Reserved lands ..	3,557	608	328	+ 280	3,837	328 square miles to A, 608 from F
E Other forests .	..	.	.	..	.	
F Unclassed forests and waste lands	..		..	..		29 square miles to A and 608 to D
Total	4,659	980	343	+ 637	5,296	
Grand Total .	11,170	1,702	745	+ 1,047	* 12,217	

As no particulars of the area of leased forests in the Southern Circle are contained in the report, the figure given for last year has been adopted. The Board should state whether this is correct, or whether these forests are included under some other head. It will be seen that the total area under the control of the Forest Department has increased by 1,047 square miles and amounted to 12,217 square miles on the 31st March last. Of the increase, 1,017 square miles were newly added from waste lands, the remaining 30 square miles being due to rectifications of areas. The advance in the area of reserved forests amounted to 685 square miles, which is 176 square miles greater than the increase in the previous year. The Government are glad to find that the work of reservation is making better progress in the Northern Circle, but there is still much to be done, the area under settlement at the end of the year being 6,240½ square miles in the Northern and 1744·12 square miles in the Southern Circle, or 7,985 square miles altogether. Settlement, however, seems on the whole to have made good advance and the area of reserved forests at the close of the present year will probably show a large increase. The attention of the Collectors of Ganjam and Anantapur will be called to the remarks in paragraph 10 of the report for the Northern Circle. The slow progress in the latter district is said to be due to the Settlement officers having other duties in the Revenue Department to perform. The Government cannot accept this excuse, and they desire that the Board will call upon the Collector to make a special report upon the progress of the work and to forward the explanation of the officers who are responsible for the delay.

Reserved Lands.—The area of reserved lands at the close of the year was 3,837 square miles in the Northern Circle and 3,655 in the Southern. Much of this is simply in a transition stage and will eventually be converted into reserved forest. The Government have not yet finally determined whether it is advisable to retain reserved lands as a separate class of forest.

The question of the future policy with regard to *Village Forests* is also still under consideration, the delay in the settlement of this important matter being due to the non-receipt of information which Mr. Brougham was directed to furnish so far back as May last.

3. Including areas notified under section 4, but which the Conservator of the Northern Circle has failed to include in reserved lands, the total area under the control of the Forest Department is 14,020 square miles * and His Excellency the Governor in Council is of opinion that the question of the further extension of this may now conveniently be considered The annexed statement shows the total area of each district, that of Government lands, cultivated and uncultivated, and that of existing and proposed reserved forests and reserved lands. The percentages of the area of the last-mentioned lands to the total of that belonging to Government and to so much of this area as is uncultivated are given in columns 9 and 10. It should be explained that the figures entered in column 6 are Government lands,

* This does not include the 49 square miles of leased forests in the Southern Circle as no particulars of the situation of these are given.

Districts.	Total area excluding feudatory and tributary States.	Area excluding zemindaries and whole inam villages.	Cultivated area.	Remainder.			Forests under the control of the Forest Department.	Percentage of col. 8 to col. 3.	Percentage of col. 8 to col. 7.
				Uncultivated and Forest	Area for which returns are not available.	Total of cols. 5 and 6.			
1	2	3	4	5	6	7	8	9	10
	SQ. MLS.	SQ. MLS	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjam (*)	8,369	2,256	573	380	1,303	1,683	704	31·2	41·8
Vizagapatam (†)	16,992	1,864	186	110	1,568	1,678	8	·4	·5
Godávari	7,774	3,606	1,452	1,471	683	2,154	647	17·9	30·0
Kistna	8,471	5,572	2,977	2,426	169	2,595	690	12·4	26·6
Nellore	8,739	3,787	1,509	2,131	147	2,278	479	12·7	21·0
Cuddapah	8,722	7,527	1,884	5,643	...	5,643	2,068	27·5	36·6
Anantapur	5,564	4,383	1,652	2,267	464	2,731	171	3·9	6·3
Bellary	5,441	4,158	2,137	2,021	...	2,021	261	6·3	12·9
Kurnool	7,541	5,994	1,796	4,190	8	4,198	1,677	28·0	39·9
Chingleput	2,840	2,051	926	1,125	...	1,125	126	6·1	11·2
North Arcot	7,503	3,768	1,230	2,538	...	2,538	819	21·7	32·2
South Arcot	5,093	4,811	2,064	2,570	177	2,747	1,068	22·2	38·9
Tanjore	3,595	2,344	1,674	670	...	670	22	·9	3·3
Trichinopoly	3,641	2,530	1,624	906	..	906	200	7·9	22·1
Madura	8,799	3,192	1,471	1,132	589	1,721	649	20·3	37·7
Tinnevelly	5,403	3,488	2,232	1,256	...	1,256	621	17·8	49·4
Coimbatore	7,804	7,120	3,644	2,429	1,047	3,476	1,694	23·8	48·7
Nilgiris	957	957	225	732	..	732	444	46·4	60·6
Salem	7,724	5,543	1,915	3,628	...	3,628	887	16·0	24·4
South Canara	3,902	3,882	620	3,262	...	3,262	109	2·8	3·3
Malabar	5,765	5,742	1,349	4,393	...	4,393	676	11·8	15·4
Total ...	1,40,639	84,575	33,140	45,280	6,155	51,435	14,020	16·6	27·2

(*) The figures for the Northern Circle are taken from the map which accompanies the report
(†) Neither the map nor the report show any forests in Vizagapatam, the 8 square miles entered in this statement is the area of the proposed reserve in the Sarvasiddhi taluk.

and as particulars are not available, the greater part of these must be uncultivated. It will be observed that the percentages of forest in different districts show wide divergences, ranging, as they do, from 0·5 in Vizagapatam to 60·6 in the Nílgiris. There are, of course, local peculiarities which must be taken into consideration, but, *primâ facie*, the Government consider that these statistics show that, in many districts, a further increase in the area under the control of the Forest Department is clearly necessary. The Board should, therefore, call upon each Collector to make a special report on the requirements of his district and to submit proposals for bringing a reasonable though not excessive extent of the waste land which it comprises under control. These reports should be forwarded through the Conservator concerned, and each should be separately reviewed by the Board and submitted for the orders of Government.

4. *Demarcation.*—The amount of demarcation done during the year shows an improvement upon the results of previous years, and His Excellency the Governor in Council trusts that this important work will now be pushed on with energy. In future reports, a statement of the work already completed, as well as of that remaining to be done, so far as this is possible, should be given, in compliance with the request of the Government of India communicated in G.O., dated 1st August 1887, No. 741, Revenue. The total expenditure on demarcation amounted to Rs. 28,306 as compared with Rs. 22,788 in 1885-86 and Rs. 23,063 in 1884-85. In the Northern Circle, the budget allotment was exceeded, but in the Southern Circle the expenditure was only Rs. 8,761, although the revised estimate was fixed at Rs. 19,027. No explanation of this difference between the actuals and the forecast is offered. The Government agree with the Board in thinking that there is no reason why the average rates for demarcation in each circle, as a whole, should differ so widely as they do, and the Conservator of the Northern Circle should institute inquiries with the object of ascertaining whether the cost in the districts under his charge is not unduly high. In Anantapur, stone walls were built as boundary lines at a cost of about Rs. 100 per mile. The Government cannot but think that such an expensive method of demarcation was altogether unnecessary.

5. *Survey.*—Very little progress was made with survey during the year owing, for the most part, to the want of proper establishment. The Government are of opinion that this important work will never be systematically dealt with until a special Forest Survey Party is organised. The difficulty is, as pointed out by Colonel Walker, to spare an officer to take charge of such a party, but His Excellency in Council is about to make proposals to the Government of India for strengthening the superior staff of the department, and if these are acceded to, it will be possible to depute an officer for forest surveys. The Conservator, Southern Circle, should ascertain and report, at an early date, what advance has been made during the current year with the forest surveys undertaken by the Madras Party of the Survey of India.

6. *Working Plans.*—As the preparation of a working plan presupposes a survey, much progress was not to be expected. Some good work, however, was done in the Southern Circle, and Mr. Gamble drew up an exhaustive note on the working of the forests in the Nílgiri district. The revised estimate of the charges on account of surveys and working plans was Rs. 7,430, but the actual expenditure amounted to only Rs. 3,527.* Neither Conservator offers any explanation of this failure to work up to the allotment.

	Northern Circle.	Southern Circle.
	RS.	RS.
* Revised Estimate	1,400	6,030
Actuals	800	2,727

7. *Fire Protection.*—The area under fire protection shows a considerable advance, as will appear from the following table :—

—	1884-85.	1885-86.	1886-87.
	SQ. MILES.	SQ. MILES.	SQ. MILES.
Northern Circle	720	728	1,168
Southern „	744	906	1,081†
Total ...	1,464	1,634	2,249

† Also 16 miles of boundary line in Tinnevelly.

The increase in the Northern Circle occurs chiefly in the Nílgiris, Bellary and Godávari; in the last district special protection was attempted for the first time. In the Southern Circle, the increase was due to additional areas having been brought under protection in North Arcot, Madura, Tinnevelly and South Canara. The Conservator, Southern Circle, does not state how much of the area under protection was guarded by the ordinary staff and how much by special watchers. The percentage of the area attempted, which was successfully protected, is given below for each of the past three years:—

—	1884-85.	1885-86	1886-87.
Northern Circle	97	96	87
Southern do.	98	98	96

The percentage fell very considerably in the Northern Circle and the explanations given are inadequate. The Conservator merely recapitulates the excuses offered by the District officers, and in some cases, not even excuses are given. It is his duty to criticise the reasons that have been alleged, and to state whether, in his opinion, the local officers are to blame or not. Colonel Campbell Walker has done this, and it seems a reasonable inference that the stricter supervision which appears to be exercised by the Southern Conservator accounts, in a great measure, for the better results obtained in his circle. In the Northern Circle the expenditure under this head amounted to Rs. 12,133 out of an allotment of Rs. 13,300. In the Southern Circle the actual charges and the revised estimate were Rs. 16,823 and Rs. 20,890, respectively. In Code form No. 62, however, the charges are shown as Rs. 16,811 for the Southern Circle and Rs. 11,868 for the Northern.

8. *Grazing.*—The views of the Board on this subject, as expressed in paragraph 18 of their resolution, have the entire concurrence of His Excellency the Governor in Council, who would only add that it seems advisable to extend the practice of allowing the removal of grass in the case of forest lands where the entry of cattle would be likely to cause considerable damage. At first, grass should be given free of charge, but when the practice has become well established, a small fee might be imposed. So far as is possible, a reasonable amount of pasture land will always be left for the free grazing of cattle actually required for agricultural or domestic purposes, but the Government do not consider that the State is under any obligation to provide free pasturage for surplus animals. It must not be forgotten, however, that while this is the ultimate aim of the policy of Government they deprecate a hasty advance towards it. All that is required is to keep it constantly in view, and to maintain a steady but cautious progress.

9. *Prosecutions.*—The number of forest offences reported in each of the past three years is shown below:—

—	1884-85	1885-86	1886-87
Northern Circle	757	848	994
Southern do.	1,007	1,154	1,339
Total ...	1,764	2,002	2,333

In the Southern Circle, 460 cases were compounded and 111 in the Northern. The Government are of opinion that this power of compounding might be more freely used in the latter circle. It is observed that it can be exercised only by officers of, or above, the grade of Sub-Assistant Conservator.

The percentage of the cases brought to trial, which resulted in convictions, was 64·54 in the Northern and 70·25 in the Southern Circle. The percentage was very low

in Nellore (34·7), but the Government agree with the Board in considering the results to be on the whole satisfactory.

10. *Natural Reproduction.*—The district reports continue to show that protection has an excellent effect on natural reproduction. A noteworthy instance is to be found in certain reserves in South Coimbatore, where the results had previously been far from promising. It was thought last year that it would be necessary to admit cattle to these forests in order to graze down the coarse elephant grass which seemed to be choking the seedlings. These, however, have now pushed their way through and are promising well. It seems very desirable to extend the same rigorous measures of protection to the Todagan valley hills in the Bolampatti range. It is reported from Anantapur that the seedlings spring up every year but die down in the hot weather, and the cutting of the grass may be the cause of this. The experiment of closing a few areas should be tried and, in the remainder, care should be taken that the removal of grass is not excessive.

11. *Artificial Reproduction.*—The areas of regular plantations at the end of 1885-86 and 1886-87 were as follow :—

	31st March 1886.	31st March 1887.
	ACS.	ACS.
Northern Circle	6,426	6,423½
Southern do.	12,234	11,786

The decrease in the Southern Circle was compounded of an increase of 239 acres and a decrease of 687 acres, which was due partly to rectification of areas (192 acres), partly to transfer to topes and partly to the abandonment of 252 acres. The total expenditure during the year on plantations, cultural operations and topes was Rs. 23,890 in the Northern Circle, Rs. 40,831 in the Southern ; the revised allotments being Rs. 19,500 and Rs. 48,150, respectively.

The Government concur in the views of the Board as to the duties of village heads in connection with topes.

12 *Exotics.*—The experiments with the Arabian date, *Phœnix dactylifera*, were successful in every district in the plains in which they were conducted except Nellore ; but out of one pound of seed sown at Coonoor, not one germinated. The Government are disposed to think that the successful cultivation of this valuable palm in this Presidency is now placed beyond the region of experiment, and that extended operations may be undertaken without further delay. The matter should be specially noted in the next annual report. Colonel Campbell Walker has printed his report on exotics as an appendix. This arrangement is, for many reasons, convenient and should be adopted by both Conservators in future. It would also be well to have a number of copies of these appendices struck off separately for communication to planters and commercial associations. It is observed that beetles and other insects were destructive in several districts. Specimens should be sent to the Superintendent of the Government Central Museum who may be able to suggest measures for stamping out such pests.

13. *Communications and Buildings.*—The following table shows the revised estimate and the actual expenditure under this head :—

—	Revised estimate.	Actuals.	Unexpended balance
	RS.	RS.	RS.
Northern Circle	36,500	25,729	10,771
Southern do.	41,811	25,990	15,821
Total ...	78,311	51,719	26,592

The Conservator, Northern Circle, offers no explanation of the non-expenditure of so large a portion of the allotment In the case of the Southern Circle, it is ascribed to (1) "the attention of District and Range officers having been almost entirely absorbed in the selection, settlement and demarcation of reserved forests, (2) the

constant change of subordinates in Wynaad, and (3) the non-acquisition of the proposed site for the Forest officer's bungalow at Nilambúr." The Government do not consider the first explanation at all satisfactory. If it was impossible for District officers to spare any time for such important works as roads and buildings—which seems highly improbable—this should have been foreseen when the budget was prepared. The divergence between the estimate and the actuals was noticeably great in Madura and South Arcot, and the attention of the Collectors of those districts should be drawn to the matter. A considerable amount of work appears to have been done in Tinnevelly and South Coimbatore, where nearly the whole of the allotments were utilised.

14. *Yield and working of Forests.*—In the Northern Circle, there was a further decrease in the quantity of timber removed by Government agency, but an increase in the quantity of fuel, bamboos, minor produce and sandalwood. The discrepancies noticed by the Board render any further comparison of the working during 1886-87 with that of previous years useless. The Collector of Vizagapatam should be directed to explain his action in sanctioning free grants so extensively as he did. In the Southern Circle, there was a considerable increase in the quantity of timber removed departmentally, but a great falling off in that of bamboos. The quantity of timber sold during the year was, however, much lower than in 1885-86, the receipts being only Rs. 61,190 as against Rs. 1,34,682. It is observed that the former figure differs from that given in form No. 6-A, the latter including outstandings of previous years realized during the year. The quantity of timber removed by purchasers was about 200,000 cubic feet higher than in 1885-86, and the increase in receipts on this account amounted to Rs. 27,353. The advance in receipts under the two following heads was also high :—

	1885-86.	1886-87.
	RS.	RS.
II (*d*), Grazing and fodder grass	7,914	35,665
II (*e*), Other minor produce	1,35,443	1,71,038

15. *Financial Results.*—His Excellency the Governor in Council has already dealt with this subject in the review of the budget for 1888-89, and he has now little to add to the remarks of the Board. He considers, however, that it is desirable to point out that the Collector, who is the executive head of the Forest Department in his district, cannot be divested of the responsibility for its efficient working. It is his duty to supervise the work of the District Forest-officer, equally with that of any of his other assistants, and this supervision is especially needed where the Forest officer is a young man of but little experience. If then the Collector finds that work is not progressing in accordance with the annual plan of operations, or the provisions made in the estimates, he should at once call upon the District Forest-officer for an explanation, and should then issue such orders as he may consider necessary. If a change in the plan of operations is deemed advisable, on professional grounds, the Collector must first consult the Conservator, whose best advice, the Government have no doubt, will always be at the service of Collectors. The Conservators' responsibility is somewhat similar to that of Collectors, and the Government and the Board must leave to those officers the duty of seeing that the estimates are being properly worked up to. That there is room for improvement in their performance of this duty is clearly shown by the following table :—

Year.	Receipts		Charges.	
	Revised estimate.	Actuals.	Revised estimate.	Actuals.
	RS.	RS.	RS.	RS.
1883-84	9,31,000	9,58,991	8,45,000	7,80,916
1884-85	11,33,000	11,62,689	10,02,000	8,84,421
1885-86	12,22,000	11,98,600	10,23,000	9,36,431
1886-87	14,02,500	12,46,783	12,03,300	11,55,687

It is true that the Conservators must depend much upon the estimates framed in the districts, but the local knowledge acquired by them in their tours should enable them to decide whether the estimates of receipts are reasonable or not, and if they exercised a careful and constant supervision over the expenditure of allotments, the amount of the grants which now so constantly lapse would undoubtedly be largely decreased. The Government trust that, now that attention has been prominently drawn to the matter, these excessive divergences between estimates and actuals will not recur.

16. *General Remarks.*—The superior officers appear generally to have worked well during the year. The year seems to have been an unhealthy one, especially in the Southern Circle, where three Rangers and three Foresters died. The touring of District officers was sufficient in all cases and in many very good. Colonel Campbell Walker inspected all the districts in his circle, but Mr. Gamble was in camp for only about ninety days and several of his districts were unvisited. The means of communication are, however, inferior in the Northern Circle. The Government notice that the orders requiring service books to be kept up to date do not appear to have been complied with in all districts. Attention should be drawn to this point as the omission to keep a careful contemporary record of services frequently causes delay in the grant of pensions, and this entails considerable hardship, especially in the case of inferior servants.

17. His Excellency the Governor in Council considers that, on the whole, good progress has been made during the past year, and agrees with the Board in regarding the work of the department as satisfactory.

(True Extract.)

(Signed) H. A. STUART,
Under Secretary to Government.